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M. S. University of Baroda

Tenth

Annual Report

1958-59

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TENTH ANNUAL REPORT

1958-59



BARODA



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TENTH ANNUAL REPORT, 1958-59

(1st July, 1958 to 30th June, 1959)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



TENTH ANNUAL REPORT, 1958-59

INTRODUCTION

The idea of establishing a University at Baroda was engaging the attention of the former Government of Baroda State since the year 1909. Some schemes for a University were framed but none of them materialised. In 1925, Baroda University Commission with Professor A. G. Widgery as Chairman was appointed. It 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 courses, library movement as a University extension movement and compulsory medical examination. Circumstances, however, were not favourable to the establishment of a separate University, but the idea was not given up. The following institutions for higher education were established in Baroda during the two decades that followed :

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

In 1947, His Highness Maharaja Sir Pratapsinh Gaekwad encouraged the idea of the University and appointed a Committee under the Chair-

manship of Shri K. M. Munshi to offer practical suggestions for its early establishment. The Committee submitted its report to the Government of Baroda towards the end of the year 1948 and recommended that the University should be primarily a teaching and residential University with an affiliating side to accommodate mofussil colleges and should institute the tutorial system of instruction. All the existing higher educational institutions including the Central Library, the Oriental Institute and the Kalabhavan were to be taken over by the University. The Committee also recommended that the Government should give a block grant of Rs. 25 lakhs annually to the University for the first five years.

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

- (a) Constituent Institutions under the management of the University :
- 1 The Baroda Arts and Science College
 - 2 The Pratapsinh College of Commerce and Economics
 - 3 The Secondary Teachers' Training College
 - 4 The Kalabhavan and the Engineering College
 - 5 The Music College
 - 6 The Oriental Institute
- (b) Constituent College managed by the Government of Bombay :
- 7 The Baroda Medical College
- (c) Constituent recognised Institutions managed by the Government of Bombay :
- 8 The Baroda Museum and Picture Gallery
 - 9 The Baroda Sanskrit Mahavidyalaya.

By June, 1950 the institutions taken over were re-organised into six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce, Technology and Engineering. The First Year and the Intermediate classes in Arts and Commerce were organised into a separate institution called the Intermediate College. Three new Faculties of Fine Arts, Home

Science and Social Work were also started from June, 1950. The management of the Baroda Sanskrit Mahavidyalaya and the Gujarati Section of the Old Baroda High School were taken over by the University from the Government of Bombay in 1951. The University continued to follow the Bombay University courses and standards of admissions, examinations, etc. in the old Faculties during the academic years 1949-50 and 1950-51. During this period, new courses and standards of admissions and examinations were prescribed and they were introduced year after year from June, 1951 onwards. The first examinations of the University were held in March-April, 1951.

Since then the Faculties have made a remarkable progress. The old courses have been thoroughly revised, special emphasis being laid on tutorials and home-assignments consistent with the special requirements of a teaching University. At the same time proper arrangements were made for the starting of new departments and courses, provision of adequate staff, improving old buildings and providing new buildings and sanctioning the necessary grants for library, equipment and contingent expenditure. A new institution called the Polytechnic to conduct diploma courses in Civil, Electrical and Mechanical Engineering was started in the year 1957-58. The development for the preceding years are described in the nine Annual Reports published so far. The Intermediate College was discontinued from the year 1958-59 and instead the Preparatory Classes Unit was started and it conducts Preparatory Courses in Arts, Science and Commerce. This tenth Annual Report covers the period from the 1st July, 1958 to the 30th June, 1959 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

I Institutions in the University

Constituent and Recognized Institutions (Under Sections 42 and 69 of the Act):

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

(5) (a) Faculty of Medicine (The Medical College) : Provides courses leading to the degrees of M.B., B.S., M.D., M.S., M.Sc. and Ph.D. and Post-graduate diplomas in D.O., D.A., D.L. & O., D.M.R. & E., D. Ped., D.V. & D., T.D.D. and D.C.P. The College is managed by the Government of Bombay.

(b) Sheth Ujamshi Pitambardas Ayurvedic Research Unit : Provides facilities for research in Ayurveda.

(6) (a) Faculty of Technology and Engineering : Provides courses leading to the degrees of B.E. and M.E. (Civil, Mechanical and Electrical), B.Text. (Eng.), B.Text. (Tech.) and B.Arch., the diplomas in Civil, Mechanical and Electrical Engineering (Third Year only), Textile Chemistry and Textile Technology and the certificate courses for Turners and Fitters, Wiremen, Carpentry, Dyeing and Weaving and guidance in research for the Ph.D. degree in Textile Chemistry.

(b) Polytechnic : Provides courses leading to the diplomas in Civil, Electrical and Mechanical Engineering (First and Second year only).

(7) (a) Faculty of Fine Arts : Provides courses leading to the degrees of B.A. (Fine) and M.A. (Fine), Post-diploma and diploma courses in Painting, Sculpture and Applied Arts, Post-graduate diploma course in Museology, diploma courses in Textile Design and Certificate Courses in Photography, Lithography, Pottery, Wood-work, Bronze-Casting and Process and Block-Making.

(b) College of Indian Music, Dance and Dramatics : Provides courses leading to the degrees of B. Mus. and M.Mus. and diplomas in Music (Vocal and Instrumental), Dance and Dramatics, an advance diploma course in Dance and a Three Year S.S.C. Course in Vocal Music.

(8) Faculty of Home Science : Provides courses leading to the degrees of B.Sc. (Home) and M.Sc. (Home). The Chetan Balwadi with a Kindergarten class is also attached to the Faculty for experiments and observations in Child Development.

- (9) Faculty of Social Work: Provides a Post-graduate course leading to the degree of M.S.W.
- (10) Preparatory Classes Unit: Provides courses leading to the preparatory examinations in Arts, Science and Commerce.
- (11) The Museum and Picture Gallery (managed by the Government of Bombay).

2 Number of students in the University

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

Statement showing the number of students in the University at the commencement of the year 1958-59

Institution	*Post-graduate courses		Degree courses		Diploma courses		Total		Grand Total 1958-59	Grand Total 1957-58	Grand Total 1956-57
	Men	Women	Men	Women	Men	Women	Men	Women			
	2	3	4	5	6	7	8	9	10	11	12
1 Faculty of Arts ..	147	33	567	284	—	—	714	317	1,031	811	457
2 Faculty of Science ..	119	10	372	61	—	—	491	71	562	520	1,082
3 Faculty of Education and Psychology.	74	23	97	57	34	4	205	84	289	230	222
4 Faculty of Commerce ..	37	—	618	2	8	—	663	2	665	509	215
5 Faculty of Medicine ..	63	6	285	53	—	—	348	59	407	409	359
6 Faculty of Technology and Engineering.	10	—	1,155	9	418	—	1,583	9	1,592	1,418	1,258
7 Faculty of Fine Arts ..	10	5	55	11	† 34	† 4	99	20	119	92	83
8 Faculty of Home Science ..	—	7	—	236	—	—	—	243	243	216	214
9 Faculty of Social Work ..	49	16	—	—	—	—	49	16	65	46	46
10 Preparatory Classes Unit ..	—	—	997	233	—	—	997	233	1,230	1,150	961
11 College of Indian Music, Dance and Dramatics.	3	5	17	13	—	—	20	18	38	33	35
12 Baroda Sanskrit Mahavidyalaya	2	—	7	—	33	—	42	—	42	34	36
13 Polytechnic ..	—	—	—	—	575	—	575	—	575	319	—
Total ..	514	105	4,170	959	1,102	8	5,786	1,072	6,858	5,785	4,968

* Includes Ph.D. and Master's degree and Post-graduate diploma students.

† Includes Post diploma students also.

Non-University students at the commencement of the year 1958-59

Institution	Men	Women	Grand Total 1958-59	Grand Total 1957-58	Grand Total 1956-57
(a) Diploma Courses:					
1. College of Indian Music, Dance and Dramatics	290	190	480	419	591
(b) Certificate Courses:					
1. Faculty of Technology and Engineering	155	—	155	106	99
2. Faculty of Fine Arts	13	3	16	11	13
3. Baroda Sanskrit Mahavidyalaya	51	3	54	49	42
(c) S.S.C. Courses:					
1. University Experimental School	224	169	393	365	364
2. Technical High School	—	—	—	61	103
3. S.S.C. Music Classes	—	—	—	—	—
(d) Nursery Courses:					
1. Chetan Balwadi	30	30	60	60	60
2. Kindergarten..	14	11	25	23	—
Total	777	406	1,183	1,114	1,272

3 Special features of the year

(1) Progress of Important Research Projects :

Several departments of the University are engaged in research work. 117 students registered in previous years and 33 this year for Ph.D. and several teachers carried on research work.

(A) The following are the research schemes financed by the Government of India, Planning Commission, University Grants Commission or other outside bodies like the I.C.M.R., C.S.I.R.,

Faculty/Department	Research Scheme	Name of the financing body	Remarks regarding the progress of the scheme
FACULTY OF ARTS			
History	Project for a Socio-historical Survey of the Muslim Population of Gujarat	University Grants Commission	Appointment of five Research Assistants was made for implementing the scheme.
Sociology	(i) A Study of Urbanisation and Industrialisation in a village	University Grants Commission	The scheme was completed and the Report was finalized and submitted to the University Grants Commission.
	(ii) A Sociological Study of a Multicaste village in Gujarat for which Barot records are available	University of Chicago, U.S.A.	The scheme was completed. The report is being finalised.
	(iii) A study of the Social changes in Mahuva, a Coastal town in Saurashtra	Rockefeller Foundation, New York	The report is being finalised.
Hindi	Exploration of literary wealth of Gujarat in the field of Hindi language and literature	University Grants Commission	About 400 manuscripts have been found out so far. Three important Hindi works of Gujarati poets viz.

Faculty/ Department	Research Scheme	Name of the financing body	Remarks regarding the progress of the scheme
			Akhabani, Kishandas Updesh Bavani and Kavishvar Dalpatram Shiavan Akhyana have been edited and are ready for publication.
FACULTY OF SCIENCE			
<i>Bio-Chemistry</i>	(i) Studies in Tissue Culture	Indian Council of Medical Research	Five research papers have been published. Further work is in progress.
	(ii) Studies in Human Lactation	Indian Council of Medical Research	Four research papers have been published. Further work is in progress.
	(iii) Studies on Food Yeast	Bombay State Industrial Research Committee	Work is in progress.
	(iv) Study of C ₄ Metabolism in A Niger	Council of Scientific and Industrial Research	More than five research papers have been published. Further work is in progress.
<i>Physics</i>	Optical Studies on etched surfaces of Metal and Alloy Crystals	Council of Scientific and Industrial Research	Two research papers have been published. Further work is in progress.
FACULTY OF EDUCATION AND PSYCHOLOGY			
	(i) Vocational and Educational Guidance	Ministry of Education, Government of India	The scheme is in progress.
	(ii) Rural Education Project	"	The scheme is in progress.
	(iii) Construction and standardization of Achievement Tests	"	The scheme is in progress.

Faculty/ Department	Research Scheme	Name of the financing body	Remarks regarding the progress of the scheme
	(iv) Inquiry into the Psychological Factors related to Adolescent Adjustment	Indian Council of Medical Research	The scheme is in progress.
	(v) Evaluation of Establishment of Multipurpose Schools	Director of Education, Government of Bombay	The scheme is in progress.

FACULTY OF SOCIAL WORK

Problems of Working Mothers in Baroda City	University Grants Commission	Data has been collected. It is in the process of classification, tabulation, etc.
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(B) The following are the research schemes financed by the University

Faculty/ Department	Research Scheme	Remarks regarding the progress of the scheme
FACULTY OF ARTS		
<i>Economics</i>	Survey of Consumers' Finance in Baroda	Investigators under the supervision of Professor I. S. Gulati are working on the scheme.
<i>Gujarati</i>	(i) Prachin Granthmala	Under this series 8 Volumes have been published so far. वर्णकसमुच्चय—भाग २ was published during the year and the ninth work 'पंचाख्यान बालवबोध' was sent to the press.
	(ii) Publication of the literary material of late Professor B. K. Thakore Series	Under this series four Volumes have been published so far. The fourth work प्रवेशको गुच्छ—भाग १ was published during the year and the प्रवेशको गुच्छ—भाग २ was sent to the press.
<i>Politics</i>	(i) Voting behaviour in an Indian village	The scheme was completed and the book has been published.
	(ii) Project on Political Analysis	The scheme was completed and the book has been published.
	(iii) Problems of Administration in two Indian villages	The report is being finalised.

Faculty/Department	Research Scheme	Remarks regarding the progress of the scheme
Sanskrit	Soma Hymns of Rg Veda	The first volume has been already published. Work on the second is in progress.
History	Editing the records of correspondence between Baroda Government and Baroda Residency	The first volume is already out and the work on the second one is in progress.
FACULTY OF SCIENCE		
Bio-chemistry	(i) Studies on Effect of Protein Malnutrition	Work is in progress.
	(ii) Biosynthesis of Carotenoids	One paper is ready. Further work is in progress.
Botany	(i) Flora of Pavagadh	One paper has been published. Further work is in progress.
	(ii) Study of Effect of some Growth Regulating substances in Common Weeds, etc.	One paper is sent for publication. Further work is in progress.
	(iii) Study of Floristic Composition of various gardens in Baroda	Work is in progress.
Chemistry	(i) Interaction of Arsanilic Acid and Stabanilic Acid, etc.	One paper has been published. Further work is in progress.
	(ii) Effect of Structure on Transition Temperatures	Progress is satisfactory.
Mathematics	Problems in Harmonic Analysis	Good results have been obtained. Further work is in progress.
Statistics	(i) Medical Examination Report	Summary of the last year's report prepared.
	(ii) Studies in Vital Statistics in Baroda	Work is in progress.

Faculty/Department	Research Scheme	Remarks regarding the progress of the scheme
	(iii) Statistical Analysis of Preparatory Science results	Tabulation and classification is made. Half of the computational work is done. Further work is in progress.

FACULTY OF TECHNOLOGY AND ENGINEERING

Electrical Engineering	Transistor Circuits	Transistor phase shift oscillators have been analysed and results verified experimentally. Further work is in progress.
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FACULTY OF SOCIAL WORK

Mental Hygiene and Psychiatric Clinic	Identifying Social Work Potentials through Projective Tests. An exploratory investigation	The report is complete and sent to the press.
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(2) Important Events

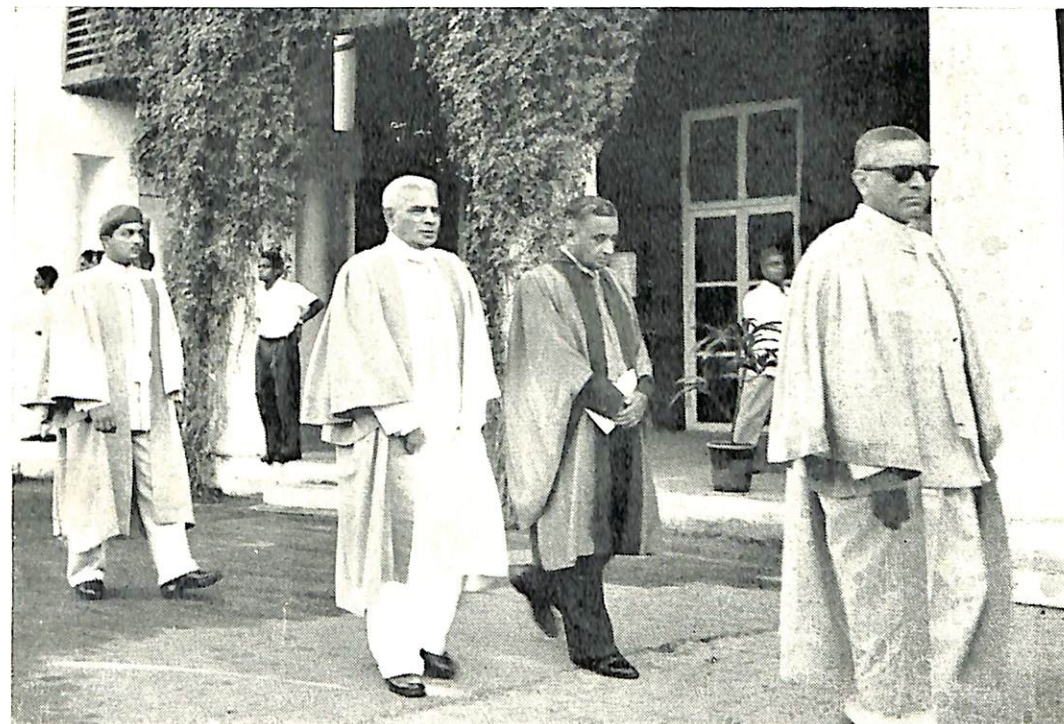
- (i) The University started the following new courses from the academic year 1958-59 :
- Teaching of Linguistics at the First Year B.A. Course in the Faculty of Arts ;
 - Teaching of Hindi in M.A. Course in the Faculty of Arts ;
 - Post-graduate diploma course in Guidance and Counseling in the Faculty of Education and Psychology ;
 - Teaching of M.E. (Civil) courses in Public Health Engineering in the Faculty of Technology and Engineering.
- (ii) Professor T. K. N. Menon, Director of Studies and Dean, Faculty of Education and Psychology attended the Annual Meetings of the World Conference of Organisations of Teaching professions held at Rome from the 31st July to the 6th August, 1958 and was elected as the Chairman of the Executive Committee of the International Council on Education for teaching ;
- (iii) The Vice-Chancellor Dr. Jyotindra M. Mehta attended the preliminary meeting of executive heads of member Universities in Toronto from the 25th to the 29th August, 1958 and

the Eighth Quinquennial Congress of the Universities of British Commonwealth in Montreal, Canada from the 1st to the 5th September, 1958.

- (iv) The Annual Convocation for conferring degrees and diplomas was held on the 17th November, 1958 in the Shamiana in the University gardens. Dr. C. D. Deshmukh, Chairman, University Grants Commission delivered the Convocation address.

The following degrees and diplomas were conferred on that day :—

S. No.	Degree/Diploma	In person	In absentia	Total
1	Ph.D. (Arts)	—	1	1
2	Ph.D. (Science)	1	2	3
3	M.D.	2	1	3
4	M.A.	25	22	47
5	Acharya	1	1	2
6	B.A. (Special)	108	48	156
7	B.A. (General)	2	—	2
8	Shashtri	2	—	2
9	Diploma in Library Science	3	2	5
10	M.Sc. (By papers)	20	12	32
11	B.Sc.	80	49	129
12	M.Ed. (By papers)	5	9	14
13	M.Ed. (By Thesis)	—	5	5
14	B.Ed.	31	70	101
15	M. Com.	4	2	6
16	B.Com	50	27	77
17	Dip. in Banking	5	2	7
18	M.Sc. (In Medical subject)	1	—	1
19	M.B., B.S.	21	6	27
20	Diploma in Anaesthesiology	2	—	2
21	Diploma in Laryngology and Otology	—	1	1
22	B.E.	63	28	91
23	B. Text (Engineering)	7	1	8
24	M.Mus.	1	1	2
25	B.A. (Fine)	5	1	6
26	B.Mus.	3	2	5
27	Diploma in Museology	4	1	5



The Senate Procession : The Chancellor, Vice-Chancellor, Dr. C. D. Deshmukh and the Pro-Vice-Chancellor

S.No.	Degrees/Diploma	In person	In absentia	Total
28	B.Sc. (Home)	24	13	37
29	M.S.W.	5	10	15
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	Total :	475	317	792

- (v) The University celebrated the Ninth University Youth Festival from the 11th to the 15th December, 1958. The festival was inaugurated by Shri Hitendra Desai, Minister for Education, Government of Bombay on the 11th December, 1958.
- (vi) The twenty-fourth session of the Indian Academy of Sciences was held under the auspices of the University from the 26th to the 29th December, 1958. Sir C. V. Raman, Nobel Prize winner delivered an illustrated popular lecture on 'Diamond' on the 30th December, 1958.
- (vii) Evaluation workshop in General Science and Social Studies was organized in the Faculty of Education and Psychology from the 26th to the 31st December, 1958.
- (viii) The Inter-University All India Kho-Kho Tournaments (Men and Women) were held at Baroda during January, 1959 under the auspices of the University ;
- (ix) A special Convocation of the University was held in the Senate Hall on the 26th April, 1959 when the M. B., B. S. degree was conferred on 5 students in absentia ;
- (x) The University accepted a donation of about 6,000 manuscripts from Yati Shri Hemchandraji. The collection is named as " श्री पूज्य जैनाचार्य लोकागच्छाधिपति श्री त्यागचन्द्रजीसूरिजी तथा पूज्य महाराज श्री स्वरूपचन्द्रजी स्मारक हस्तलिखित पुस्तकभंडार (ज्ञानभंडार) and is kept in the Oriental Institute.

4. Changes in the teaching staff

(1) Appointments on existing posts :

The following appointments were made to some of the posts which were vacant or which fell vacant during the year :

FACULTY OF ARTS

Lecturers : Shri A. M. Shah ; Kumari S. H. Divatia ; Shri S. C. Malik ; Shri H. M. Trivedi ; Shri S. B. Majmudar ; Shri R. Krishnamurthy.

FACULTY OF SCIENCE

Professor : Professor C. V. Ramakrishnan

Lecturer : Shri C. M. Gupta ; Shri B. R. Misra ; Shri M. C. Ghia ;
Dr. V. V. Rao ; Shri B. S. Yadav ; Shrimati V. S. Mayor ; Shri
K. S. Gulati ; Shri R. M. Naik

FACULTY OF EDUCATION AND PSYCHOLOGY

Reader : Dr. (Kumari) P. Pasricha

Lecturers : Shri D. B. Desai ; Shri R. S. Thakar ; Shri H. J. X.
Farnandes ; Shri S. M. Divekar

FACULTY OF TECHNOLOGY AND ENGINEERING

Professor : Professor J. M. Shah

Reader : Shri P. R. Batni

Lecturers : Shri N. P. Joshi ; Shri C. D. Desai ; Shri R. F. Kothari ;
Shri N. G. K. Moorthy ; Shri C. Srinivasan ; Shri T. Shrinivasan ;
Shri Y. K. Kardile ; Shri J. R. Derasari ; Shri Harishanker

FACULTY OF HOME SCIENCE

Professor : Professor (Kumari) Justina A. Singh

FACULTY OF SOCIAL WORK

Lecturers : Kumari I. M. Patel ; Shri S. R. Yardi ; Kumari V. S.
Telang ; Kumari S. R. Contractor ; Shri M. N Bazmi

POLYTECHNIC

Professor : Professor L. B. Shah

Lecturers : Shri T. D. Bhagia ; Shri G. I. Bhagia

(2) *Appointments to new teaching posts :*

The following appointments were made during the year on the new posts sanctioned from the 1st July, 1958 or thereafter :

FACULTY OF ARTS

Professors : Professor V. Y. Kantak ; Professor C. M. Shukla ;
Professor I. S. Gulati ; Professor B. Subba Rao

Readers : Shri Kunver Chandra Prakash Singh ; Dr. A.G. Javadekar ;
Kumari S. H. Divatia ; Dr. S. C. Misra

Lecturers : Shri R. K. Unni ; Shri T. N. Sheth ; Dr. R. N. Mehta ;
Shri S. G. Kantawala

FACULTY OF SCIENCE

Lecturers : Shri K. R. Dixit ; Shri K. S. Scaria ; Shri Y. S.
Deshmukh ; Shri N. P. Salvi ; Shri H. S. Desai

FACULTY OF EDUCATION AND PSYCHOLOGY

Lecturers : Shrimati M. M. Amin ; Shri J. J. Patel

FACULTY OF TECHNOLOGY AND ENGINEERING

Professor : Professor R. S. Dighe

Lecturers : Shri G. I. Bhagia ; Shri B. B. Nanavaty ; Shri C. J.
Karamchandani ; Shri C. M. Amin ; Shri C. Srinivasan

FACULTY OF FINE ARTS

Lecturers : Shri F. N. Katpitia ; Shri B. K. Barua

FACULTY OF HOME SCIENCE

Lecturers : Shrimati Manjari Yoga

COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

Lecturer : Shri M. J. Bhatt

POLYTECHNIC

Lecturers : Shri C. J. Karamchandani ; Shri C. M. Amin ; Shri
S. M. Shah

(3) *Teachers who ceased to be on the staff of the University :*

The following teachers left the University during the year 1958-59 :

FACULTY OF ARTS

Professor : Professor M. N. Srinivas ; Professor G. B. Pandya
(expired)

Reader : Shri D. M. Patel

Lecturer : Shri A. C. Chandola

FACULTY OF SCIENCE

Lecturers : Shri T. N. Shekhar Verma ; Dr. V. N. Singh ; K. S.
Gulati.

FACULTY OF EDUCATION AND PSYCHOLOGY

Reader : Dr. M. Yoganarasimhiah

FACULTY OF TECHNOLOGY AND ENGINEERING

Lecturers : Shri M. H. Patel ; Shri J. D. Shastri ; Shri G. C. Patel

FACULTY OF FINE ARTS

Lecturers : Shri K. G. Subramanyam ; Dr. (Kumari) B. C. Doctor

FACULTY OF HOME SCIENCE

Lecturers : Shrimati Manjari Yoga ; Kumari A. A. Jaituni

FACULTY OF SOCIAL WORK

Lecturers : Kumari W. Goodwin ; Shri P. M. Methew

COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

Lecturer : Shrimati P. Uma Devi

POLYTECHNIC

Lecturer : Shri P. V. Sambrani

5. Facilities to the members of the teaching staff for further studies

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

Name	Designation	Type of facility	Qualifications or experience acquired.
1. Dr. A.N. Jani	Lecturer in Sanskrit	Due leave and leave without pay plus return air passage and Rs. 1,000/- as study tour grant	Research experience at the University of Hamburg, Germany
2. Shri R. V. Joshi	Lecturer in Physics	Due leave and leave without pay	Ph.D. in Physics, University of Leeds, U. K.

(ii) The following members of the staff who were granted facilities continued their studies abroad during the year :

Name	Designation	Type of Facility	Nature of studies
1. Shri M. Baljit Singh	Lecturer in Politics	Leave without pay	Ph.D. at the Indian School of International Studies, Delhi and also for Ph.D. studies in Washington, U.S.A.

Name	Designation	Type of Facility	Nature of studies
2. Shri M. S. Patel	Lecturer in Statistics	Leave without pay and scholarship of Rs. 250/- p.m.	Higher studies in Statistics at the University of North Carolina, U.S.A.
3. Shri S. J. Shah	Lecturer in Mechanical Engineering	Study leave	For Doctorate in Textile Engineering at the Swiss Federal Institute of Technology, Zurich
4. Shri K. S. Shah	Lecturer in Mechanical Engineering	Due leave and leave without pay	For advanced study and research in Internal Combustion Engineering for Doctorate degree in Austria
5. Shri N. Y. Hiriyur	Reader in Applied Mechanics	Due leave and leave without pay	To avail of the scholarship offered by the East German Democratic Republic for Post-graduate Studies to East Germany
6. Shri S. S. Merh	Lecturer in Geology	Study leave for 2½ years	Ph.D. in Geology at the Imperial College, London
7. Shri R. C. Patel	Lecturer in Mechanical Engineering	Due leave and leave without pay	M.Sc. Engineering Course in Thermo-Dynamics and related studies at Birmingham University
8. Shri R. T. Shah	Lecturer in Mechanical Engineering	Due leave and leave without pay	Post-graduate study on Examinations on Clamp Screws and detachable Compound elements pot flanges' in East Germany
9. Shri S. I. Patel	Lecturer in Electrical Engineering	Due leave and leave without pay	For practical training in West Germany
10. Shri C. P. Desai	Demonstrator in Electrical Engineering	Due leave and leave without pay	For training in the field of 'Measuring Techniques' and 'High Tensions' on one hand and to attend lectures on the other in West Germany

(6) University Examination Results

During the year, 3 candidates were declared qualified for the Ph.D. degrees—one each in Sociology, Chemistry and Zoology.

The following two statements show the results of October–December, 1958 and March–April–June, 1959 examinations :

Results of the University Examinations of the Second Half, 1958 (October-December, 1958)

S. No.	Examination	No. Registered		No. absent		No. appeared			Number Passed						Percentage of Passes	Remarks	
		No. Registered		No. absent		No. appeared			Men			Women					
		3	4	5	6	7	I Class	II Class	Pass Class	Total	I Class	II Class	Pass Class	Total			
1	F.Y. B.A. ...	34	3	21	10	31	-	-	15	15	-	-	4	4	19	61.29	
2	F.Y. B.Sc. ...	21	-	20	1	21	-	-	13	13	-	-	1	1	14	66.67	
3	B.Sc. (Subsidiary)*	29	1	26	2	28	-	-	17	17	-	-	2	2	19	67.86	
4	F.Y. B.Com. ...	85	1	84	-	84	-	-	41	41	-	-	-	-	41	48.81	
5	(a) B.Com. ... (b) B.Com. ... (Under O. 434— B.A. students)*	23	2	21	-	21	1	1	7	9	-	-	-	-	9	42.86	
	(c) B.Com.* (Under—O. 435)	1	-	1	-	1	-	-	1	1	-	-	-	-	1	100.00	
6	Ist M.B., B.S.* ...	63	-	53	10	63	-	-	31	31	-	-	6	6	37	58.73	† Includes two students securing distinction in Pharmacology and six students in Forensic Medicine.
7	IIInd M.B., B.S.* ...	52	-	48	4	52	-	-	37	37	-	-	3	3	40	76.92	

* Results of these examinations are not declared in Classes.

I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
8	IIIrd M.B., B.S.* ...	67	1	53	13	66	-	-	19	19	-	-	4	4	23	34.85	
9	M.Sc. (Bacteriology)	...	1	1	-	1	-	-	-	-	-	-	-	-	-	00.00	
10	M.D.* ...	...	5	4	1	5	-	-	3	3	-	-	1	1	4	80.00
11	M.S.* ...	...	3	3	-	3	-	-	1	1	-	-	-	-	1	33.33
12	D.O.* ...	...	2	2	-	2	-	-	-	-	-	-	-	-	-	00.00
13	D.C.P.* ...	...	4	4	-	4	-	-	-	-	-	-	-	-	-	00.00
14	D.Ped.* ...	...	2	2	-	2	-	-	2	2	-	-	-	-	2	100.00
15	B.E. (Civil)	...	7	7	-	7	-	4	3	7	-	-	-	7	100.00		
16	B.E. (Mechanical)	...	3	3	-	3	2	-	-	2	-	-	-	-	2	66.67	
17	B.E. (Electrical)	...	4	4	-	4	1	3	-	4	-	-	-	-	4	100.00	
18	D.C.E. ...	...	5	5	-	5	-	2	2	4	-	-	-	-	4	80.00
19	D.M.E. ...	...	4	3	-	3	-	1	2	3	-	-	-	-	3	100.00
20	D.E.E. ...	...	3	3	-	3	-	-	1	1	-	-	-	-	1	33.33
21	D.T.C. ...	...	2	2	-	2	-	-	2	2	-	-	-	-	2	100.00
22	D.T.I. ...	...	3	3	-	3	-	1	1	2	-	-	-	-	2	66.67
23	D. Arch. ...	...	2	2	-	2	-	-	2	2	-	-	-	-	2	100.00
24	M.S.W.* ...	...	2	2	-	2	-	-	1	1	-	-	-	-	1	50.00

* Results of these examinations are not declared in Classes.

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

S. No.	Examination	No. Registered	Absent	No. Appeared			Number Passed						Grand Total	Percentage of Passed	Remarks		
				Men	Women	Total	Men			Women							
							I Class	II Class	Pass Class	Total	I Class	II Class				Pass Class	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Preparatory Arts	438	9	236	193	429	2	43	160	205	1	44	138	183	388	90.44	
2	Inter Arts	3	1	1	1	2	-	-	-	1	1	-	1	1	2	100.00	
3	F. Y. B.A.	329	2	219	108	327	1	28	120	149	7	27	57	91	240	73.62	Result of one candidate not declared.
4	S. Y. B.A.*	282	5	173	104	277	-	-	156	156	-	-	93	93	249	89.89	
5	B.A.	235	2	164	69	233	6	65	62	133	3	38	22	63	196	84.12	
6	M.A.	67	9	49	9	58	-	15	19	34	-	3	2	5	39	67.24	
7	Post-graduate Diploma in Library Science	22	-	16	6	22	2	4	3	9	-	4	-	4	13	59.09	
8	Shastri	4	1	3	-	3	-	1	1	2	-	-	-	-	2	66.67	
9	Acharya	1	-	1	-	1	-	1	-	1	-	-	-	-	1	100.00	
10	Preparatory Science	613	4	549	60	609	43	265	137	445	5	23	15	43	488	80.26	Result of one candidate not declared

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
11	Inter Science	7	1	5	1	6	—	—	4	4	—	—	—	—	4	66.67	
12	Pre-Medical	60	—	40	20	60	5	27	5	37	7	13	—	20	57	95.00	
13	F.Y. B.Sc.	153	2	136	15	151	7	49	22	78	2	5	4	11	89	58.94	
14	S.Y. B.Sc.*	103	1	91	11	102	—	—	55	55	—	—	4	4	59	57.84	
15	B.Sc. (Subsidiary) *	3	—	3	—	3	—	—	2	2	—	—	—	—	2	66.67	
16	B.Sc.	152	3	131	18	149	17†	46	44	107	2†	11	5	18	125	83.89	† Includes ten male students and two female students with Distinction
17	M.Sc.	62	2	58	2	60	6†	26	19	51	—	2	—	2	53	88.33	† Includes one student with Distinction
18	T.D.*	37	—	33	4	37	—	—	33	33	—	—	4	4	37	100.00	
19	B.Ed.	111	—	89	22	111	6†	47	33	86	2	11	9	22	108	97.30	† Includes one student with Distinction
20	M.Ed. (By papers)	20	1	13	6	19	—	5	8	13	1	2	2	5	18	94.74	
21	M.Ed. (By Thesis) *	4	—	4	—	4	—	—	4	4	—	—	—	—	4	100.00	
22	D.G.C.	11	—	6	5	11	—	—	6	6	—	—	5	5	11	100.00	

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
23	Preparatory Commerce	1475	2	466	7	473	7	60	243	310	1	2	2	5	315	66.73	Result of one candidate not declared
24	(a) Inter Commerce (b) Inter Commerce (Vide O.434—B.A. students)	11	2	9	—	9	—	—	8	8	—	—	—	—	8	88.88	
25	F.Y. B.Com.	13	1	12	—	12	—	—	7	7	—	—	—	—	7	58.33	
26	S. Y. B.Com*	290	6	283	1	284	4	31	118	153	—	1	—	1	151	54.22	
27	(a) B.Com. (b) B.Com. (under O.434 —B.A. students) * (c) B.Com. (under O.435 —additional subject) *	235	—	234	1	235	—	—	180	180	—	—	1	1	181	77.02	
28	M.Com.	150	9	142	—	142	1	26	87	114	—	—	—	—	114	80.28	
29	Diploma in Co-operation*	8	1	7	—	7	—	—	3	3	—	—	—	—	3	42.86	
30	Diploma in Banking*	1	1	—	—	—	—	—	—	—	—	—	—	—	—	00.00	
		10	—	10	—	10	—	—	4	4	—	—	—	—	4	40.00	
		9	1	8	—	8	—	—	8	8	—	—	—	—	8	100.00	
		10	1	9	—	9	—	—	7	7	—	—	—	—	7	87.05	Result of one student not declared
31	Ist M.B., B.S.*	27	—	23	4	27	—	—	17	17	—	—	4	4	21	77.78	

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
32	IInd M.B., B.S.*	34	—	33	1	34	—	—	15	15†	—	—	1	1	16	47.06	†One student secured Distinction in Forensic Medicine
33	IIInd M.B., B.S.*	65	1	51	13	64	—	—	26	26†	—	—	10	10	36	56.25	†One student secured Distinction in Preventive and Social Medicine
34	M.D.*	2	—	2	—	2	—	—	1	1	—	—	—	—	1	50.00	
35	M.S.*	3	—	3	—	3	—	—	1	1	—	—	—	—	1	33.33	
36	D.A.*	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
37	D.O.*	2	—	2	—	2	—	—	1	1	—	—	—	—	1	50.00	
38	F.E. (New)	339	2	334	3	337	30†	125	67	222	—	—	1	1	223	66.17	† 8 with Distinction
39	(a) S.E. (New)	260	2	257	1	258	28†	115	44	187	—	1	—	1	188	72.87	† 11 with Distinction
40	(b) S.E. (New) (Under O.635) * S.E. (Old)	24	—	24	—	24	—	—	20	20	—	—	20	20	20	83.33	† Includes 4 with Distinction
		318	—	318	—	318	15†	140	75	230	—	—	—	—	230	72.33	

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
41	(a) B.E. (Civil)	62	—	62	—	62	17†	36	5	58	—	—	—	—	58	93.55	† Includes 4 with Distinction
	(b) B.E. (Mechanical)	62	—	62	—	62	26†	31	2	59	—	—	—	—	59	95.15	† Includes 3 with Distinction
	(c) B.E. (Electrical)	24	—	24	—	24	7†	16	1	24	—	—	—	—	24	100.00	† Includes 2 with Distinction
42	T. Text (Engineering)	16	—	16	—	16	7†	9	—	16	—	—	—	—	16	100.00	† Includes 1 with Distinction
43	T. Text (Technology)	6	—	6	—	6	3	3	—	6	—	—	—	—	6	100.00	
44	B. Text (Engineering)	11	—	11	—	11	8†	3	—	11	—	—	—	—	11	100.00	† Includes 4 with Distinction
45	B. Text (Technology)	1	—	1	—	1	1	—	—	1	—	—	—	—	1	100.00	
46	Elementary Architecture	43	—	43	—	43	3	24	10	37	—	—	—	—	37	86.04	
47	Intermediate Architecture	48	—	46	2	48	3	20	14	37	—	—	2	2	39	81.25	
48	B. Arch.	35	1	34	—	34	4	24	4	32	—	—	—	—	32	94.12	

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
49	(a) F. Y. Diploma in Engineering (CME)	327	1	326	—	326	23	95	107	225	—	—	—	—	225	69.23	Result of one candidate not declared
	(b) F. Y. Diploma in Engineering (CME) —(under O.591)*	45	—	45	—	45	—	1†	44	45	—	—	—	—	45	100.00	† Given class as he did not keep the exemptions
50	S. Y. Diploma in Engineering (CME)	255	—	255	—	255	50	120	72	242	—	—	—	—	242	94.90	
51	Diploma in Civil Engineering	72	1	71	—	71	22	26	20	68	—	—	—	—	68	95.77	
52	Diploma in Mechanical Engineering	49	—	49	—	49	15	24	6	45	—	—	—	—	45	91.83	
53	Diploma in Electrical Engineering	44	1	43	—	43	9	22	7	38	—	—	—	—	38	88.37	
54	Diploma in Textile Chemistry	63	—	63	—	63	9	22	29	60	—	—	—	—	60	95.23	
55	Diploma in Textile Technology	34	—	34	—	34	6	21	5	32	—	—	—	—	32	94.12	
56	D. Arch.	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
57	Diploma in Music *	35	—	24	11	35	—	—	16	16	—	—	6	6	22	62.86	
58	Diploma in Dance *	14	—	2	12	14	—	—	2	2	—	—	9	9	11	78.57	
59	Diploma in Dramatics *	5	—	5	—	5	—	—	5	5	—	—	—	—	5	100.00	
60	Post-Diploma course in Dancing*	1	—	—	1	1	—	—	—	—	—	—	1	1	1	100.00	

Results of University Examinations of the First Half, 1959 (March-April-June, 1959)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
61	B. Mus.*	6	—	4	2	6	—	—	3	3	—	—	2	2	5	83.33	
62	M. Mus.*	3	1	2	—	2	—	—	1	1	—	—	—	—	1	50.00	
63	Post-Diploma Specialisation (Applied Arts)*	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
64	M.A. (Fine)—Painting*	4	—	1	3	4	—	—	1	1	—	—	2	2	3	75.00	
65	(a) B.A. (Fine)—Painting*	5	—	4	1	5	—	—	4	4	—	—	1	1	5	100.00	
	(b) B.A. (Fine) Sculpture*	2	—	2	—	2	—	—	1	1	—	—	—	—	1	50.00	
	(c) B.A. (Fine) Applied Arts*	3	—	3	—	3	—	—	1	1	—	—	—	—	1	33.33	
66	(a) Diploma in Painting*	2	—	2	—	2	—	—	1	1	—	—	—	—	1	50.00	
	(b) Diploma in Applied Arts*	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
	(c) Diploma in Sculpture*	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
67	Post-graduate Diploma in Museology	4	—	2	2	4	—	—	2	2†	—	—	2	2	42	100.00	† Includes 1 with Distinction
68	B.Sc. (Home)*	30	—	—	30	30	—	—	—	—	—	—	30	30	100.00		
69	M.Sc. (Home)*	3	—	—	3	3	—	—	—	—	—	—	3	3	100.00		
70	M.S.W.*	26	—	20	6	26	—	—	19	19	—	—	6	6	25	96.15	
71	Ph.D. (Arts)*	2	—	2	—	2	—	—	1	1	—	—	—	—	1	50.00	
72	Ph.D. (Science)*	3	—	2	1	3	—	—	2	2	—	—	—	—	2	50.00	

* Results of these examinations are not declared in Classes.

7. Finances of the University

(1) Endowments received during the year :

The Syndicate accepted the following new endowments :

- (a) **Dr. (Shrimati) Indumati Thakorbbhai Patel Gold Medal Fund**
The Syndicate accepted the donation of 30 Cumulative Preference shares of Walchandnagar Industries, Bombay paying 7% cumulative interest, free of Incometax, from Dr. T. V. Patel, Convener, Medical Examination Board, for awarding, out of the interest earned, a gold medal every year at the annual convocation to the student of the Medical College, securing the highest percentage of marks in the regular final M. B., B. S. examination at the first attempt.

(b) **Shri S. D. Sathe Amrutotsava Scholarship Fund**

The Syndicate accepted the donation of 25 Second Preference shares of Tata Iron & Steel Co. Ltd., yielding 7½% interest, from the daughter and two sons of Shri S. D. Sathe, for awarding out of the interest, a scholarship of Rs. 15/- p. m. to the student who stands third in B. E. (Civil) second year examination in order of merit.

(c) **M. C. Ghia Charitable Trust Scholarship**

This University received a sum of Rs. 960/- from M. C. Ghia Charitable Trust, Bombay for awarding two scholarships each of Rs. 40/- p. m. to the poor and deserving students studying in degree courses in the Faculty of Technology and Engineering.

(2) Other Endowments :

(a) **United Nations' Appeal for Children Fund**

(being the refund of the returnable share of the amount subscribed by the former Baroda Government to the Fund)

During the year, Rs. 2,852=22 were spent out of the interest of Rs. 3,379=09 of the above Fund, as under :

(i) **Chetan Balwadi :**

	Rs.
1. Freeships	1,012=00
2. Food (towards the lunch expense of some children)	40=00
3. Supplementary foods (Fruit Juice and supplementary diet)	217=58
4. Medical aids	69=43
5. Clothes and shoes	24=03
6. Miscellaneous expenses	27=25
	1,390=29

(ii) **University Experimental School :**

1. Supply of milk to children 939=75

(iii) **Faculty of Social Work :**

(Camp Recreational Centre)

1. Nutrition 415=06
2. Educational material (books) 95=00
3. Exhibition of films —
4. Contingencies 12=12

522=18

Total : 2,852=22

The closing balance of the Fund is Rs. 1,09,772=00 which is invested in Government Securities.

(b) **Critical Edition of Ramayan Fund**

An amount of Rs. 3,000/- was received during the year from Sir Dorabji Tata Trust, Bombay, being the payment of the 5th instalment for the year 1958-59 out of the donation of Rs. 15,000/- payable in 5 instalments of Rs. 3,000/- each per annum.

Grants of Rs. 20,000/- and Rs. 30,000/- were received, during the year, from the University Grants Commission and the Government of Bombay respectively. The receipts and expenditure of the Fund for the year 1958-59 are as follows :

Receipts	Rs.	Expenditure	Rs.
Opening balance as on 1-7-1958	21,114=61	Expenditure	78,527=39
Donation	3,000=00		
Subscriptions	3,958=45		
Grant from the University Grants Commission	20,000=00		
Grant from the Government of Bombay	30,000=00		
	78,073=06		
Deficit	454=33		
Total :	78,527=39	Total :	78,527=39

(3) Capital Funds

Receipts and Payments for the year 1958-59 i. e. from the 1st July 1958 to the 30th June, 1959

1—University General Fund

Receipts	Rs.	Payments	Rs.
Interest	17,443=46	Water supply scheme in the University Campus	4,026=55
Grant from the Government of Bombay towards the construction of the Second Hall of Residence for Women Students	1,37,500=00	Hall of Residence for Students (No. V)	12,376=17
Grant from the University Grants Commission towards the construction of the Second Hall of Residence for Women Students	80,000=00	Hall of Residence for Women Students (No. II)	1,785=65
Grant from the University Grants Commission towards the construction of the Second Hall of Residence for Women Students	75,000=00	Faculty of Fine Arts University Library	4,591=54
Less Deficit of the year 1957-58 written off	3,09,942=46	Construction of building at Social Education Organisers' Training Centre at Samiala	24,930=61
Deficit i. e. excess of expenditure over receipts for the year 1958-59	1,60,925=42	Constructing a building for the 18th Bombay Engineering Platoon	16,040=16
	1,49,017=04	Constructing a building for the 5th Bombay Girls' Troops	34,340=28
	9,394=12	Constructing a building for the 6th Bombay Bn. N.C.C.	51,929=84
		Second Home Management House	7,761=46
		Constructing a building for the 6th Bombay Bn. N.C.C.	—
		Special Heavy Repairs to Buildings	628=90
Total	1,58,411=16	Total	1,58,411=16

II Technology and Engineering Faculty Fund

Receipts	Rs.	Payments	Rs.
Interest	60,189=55	Building for Technology Section	53,620=48
Adjustment in expenditure on Equipment for Technology Section	9,890=92	Equipment for Engineering Section	9,528=11

Receipts	Rs.	Payments	Rs.
Opening balance	3,38,154=16	Advance to M. S. University Press (Sadhana Press)	
		For Types and Metal	11,357=35
		For Machinery	1,106=60
		For Furniture	1,228=62
		For Building	1,97,122=75
		Equipment and Cold Room for Biochemistry Department	26,729=03
		Loss on sale of Securities	1,49,142=10
		Transfer to Revenue Accounts towards the maintenance of the Faculty of Technology and Engineering	10,000=00
		Closing balance	4,59,835=04
		Total	4,48,399=59
	9,08,234=63	Total	9,08,234=63

III Research in Ayurvedic (Sheth U. P. Ayurvedic Research Unit)

Receipt	Rs.	Payments	Rs.
Interest	28,914=92	Construction of a Rasashala	683=34
Opening balance	10,72,652=22	Purchase of deadstock and equipment	2,615=21
		Amount transferred to meet the excess recurring expenditure over the grant of Rs. 36,000 from the Government of Bombay	20,183=59
		Closing balance	23,482=14
		Total	10,78,085=00
Total	11,01,567=14	Total	11,01,567=14

IV Post-graduate Instruction and Research Fund

Receipts	Rs.	Payments	Rs.
Interest	1,23,457=50	Transfer to Revenue Account towards the expenditure on Research staff, Contingencies, Equipment, Books, etc.	20,000=60
Opening balance	39,64,758=97		20,000=00
		Closing balance	40,68,216=47
Total:	40,88,216=47	Total	40,88,216=47

V Women's Educational Trust Fund

Receipts	Rs.	Payments	Rs.
Interest	1,520=50	Amount transferred to Revenue Account	1,520=50
Adjustment on expenditure on equipment	377=95		1,520=50
Opening Balance	63,081=92	Closing Balance	63,459=87
Total	64,980=37	Total	64,980=37

(4) Revenue Funds:

Receipts and Expenditure for the year 1958-59 i.e. from the 1st July, 1958 to the 30th June, 1959
(Subject to Audit)

S. No.	Particulars	Receipts in Rs.	S. No.	Particulars	Expenditure in Rs.
I	Tuition fees and other income from Faculties and Institutions	12,60,163=01	I	University General Administration	2,32,853=76
(A)	Faculties		II	Examination charges	2,84,585=77
(a)	Faculty of Arts	2,24,989=53	III	Deadstock and Repairs	13,871=52
(b)	Faculty of Science	2,38,161=52	IV	Publications	6,464=02
(c)	Faculty of Education and Psychology	99,000=61	V	Information and Publicity	6,885=52
(d)	Faculty of Commerce	1,76,252=91	VI	Remuneration to Lecturers	1,200=00
(e)	Faculty of Technology and Engineering	3,83,207=75	VII	Travelling Allowance	54,531=66
(f)	Faculty of Fine Arts	27,497=64	VIII	Printing and Stationery	50,241=10
(g)	Faculty of Home Science	54,289=98	IX	Maintenance of Buildings & Roads	44,496=77
(h)	Faculty of Social Work	24,095=54	X	Maintenance of Gardens	19,748=40
(B)	Institutions		XI	Municipal Rates, Taxes, and Law Charges	9,103=65
(a)	Oriental Institute	—	XII	University Contribution to Provident Fund	7,206=37
(b)	College of Indian Music, Dance and Dramatics	31,158=91	XIII	Study Leave	6,820=37
(c)	Preparatory Classes Unit	1,492=37	XIV	Miscellaneous	1,15,138=49
(d)	Sanskrit Mahavidyalaya	16=25	XV	Research Staff, Contingencies, Equipment, etc.	96,274=78
II	Examination Fees	3,00,951=24	XVI	50% Expenditure of University Grants Commission Unit	4,155=76
III	Other Fees	93,211=75	XVII	University Library	1,48,935=33
IV	Income from Publications	24,324=91	XVIII	Physical Education Department	77,624=25
VA	Grant from the Government of Bombay	21,54,369=25	XIX	Department of General Education	17,949=22

S. No.	Particulars	Receipts in Rs.	S. No.	Particulars	Expenditure in Rs.
VB	Grant from Government of Bombay and University Grants Commission towards increase in salaries of the teaching staff due to grade revision	1,19,784=80	XX	Faculties and Institutions	31,46,838=26
VI	Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	3,00,000=00	(A)	Faculties	
VII	Interest on Cash Balances	20,820=86	(a)	Faculty of Arts	4,45,897=15
VIII	Income from Endowments	32,240=21	(b)	Faculty of Science	6,75,653=92
IX	Income from Halls of Residence for students	1,32,373=50	(c)	Faculty of Education and Psychology	2,69,537=56
X	Income from use and occupations of University Quarters and Bungalows including furniture rent	47,502=10	(d)	Faculty of Commerce	1,00,424=09
XI	Income from Lease of land	230=00	(e)	Faculty of Technology and Engineering	7,34,685=27
XII	Miscellaneous Income	94,598=75	(f)	Faculty of Fine Arts	2,11,732=07
XIII	Income from M. S. University of Baroda Press (Sadhana Press)	3,03,410=39	(g)	Faculty of Home Science	2,05,525=32
	Total Receipts	48,83,980=77	(h)	Faculty of Social Work	1,50,161=68
			(B)	Institutions	
			(a)	Oriental Institute	81,091=37
			(b)	College of Indian Music, Dance and Dramatics	1,81,832=88
			(c)	Preparatory Classes Unit	38,580=80
			(d)	Sanskrit Mahavidyalaya	45,707=15
			XXI	M. S. University of Baroda Press (Sadhana Press)	3,23,749=31
			XXII	Halls of Residence for students	1,64,516=41
				Total Expenditure	48,33,190=72
				Excess of Receipts over Expenditure i.e. surplus	50,790=05
				Grand Total	48,83,980=77

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(5) Grants :

The following grants were received from the University Grants Commission, Government of India, Planning Commission, Community Projects Administration, Government of Bombay and other Government Departments during the year 1958-59 i. e. from the 1st July, 1958 to the 30th June 1959 :

A. Grants from the University Grants Commission :

	Items	Rs.
1	Common Room for Women Students in the Faculty of Arts	8,307=13
2	Building for the Department of Psychology	26,667=00
3	Building for the Faculty of Commerce and Social Sciences Block	80,000=00
4	Building for the Faculty of Social Work	1,00,000=00
5	Extension to the present building of the College of Indian Music, Dance and Dramatics	50,000=00
6	Equipment for the Faculty of Science	1,36,000=00
7	Equipment for the Faculty of Home Science	13,333=00
8	Books and Journals on Humanities	1,00,000=00
9	Books and Journals on Scientific and Technical subjects	50,000=00
10	Publication of a Critical and Illustrated Edition of Valmiki Ramayan	20,000=00
11	Publication of Gaekwad Oriental Series	10,000=00
12	Poor Students' Aid Fund	7,800=00
13	National Exhibition	3,000=00
14	Furniture for the University Library	50,000=00
15	Research Scheme 'Problems of Working Mothers in Baroda City'	3,500=00
16	Development of the Department of Archaeology	
	(i) Recurring for staff and maintenance	6,000=00
	(ii) Non-Recurring for equipment, books, station wagons etc.	39,200=00
17	Development of the Department of Psychology—Books, Equipment and apparatus	4,600=00

Item	Rs.
18 Expansion Scheme of Degree Courses in the Faculty of Technology and Engineering	
(i) Building	1,20,000=00
(ii) Equipment	60,080=00
(iii) Staff and maintenance	76,236=00
19 Expansion Scheme of Diploma Courses in Polytechnic	
(i) Building	5,75,000=00
(ii) Equipment	3,00,000=00
(iii) Staff and maintenance	2,18,887=00
20 Additional Staff and deadstock for the University Grants Commission Unit	3,000=00
21 Additional Staff for the Faculty of Science	17,281=00
22 Additional Staff for the Faculty of Technology and Engineering under the Development Scheme	8,901=75
23 Increase in salaries of the teachers due to revision of scales	89,600=00
24 Post-graduate and Research Scholarships in Humanities and Sciences	10,000=00
B. Grants from the Ministry of Education, Government of India :	
1 Research in Educational and Vocational Guidance	10,661=00
2 Research Project on "Construction and Standardisation of sets of Achievement Test in Secondary Schools"	13,010=00
C. Grants from the Planning Commission :	
1 Research Scheme ' Small Scale and Cottage Industries in Baroda District '	6,070=00
2 Study of Agricultural Economy of Gujarat	427=80
D. Grants from the Government of India, Community Project Administration :	
Training Centre for Specialised Training of Social Education Organisers	97,500=00
E. Grants from the Council of Scientific and Industrial Research :	
1 Studies of C.4 Metabolism in A Nigar	12,928=18
F. Grants from the Government of Bombay, Education Department :	
1 Building for the Department of Sociology (Social Sciences Block)	50,000=00

Items	Rs.
2 Building for the Department of Psychology	28,105=00
3 Building for the Faculty of Commerce	60,000=00
4 Building for the Faculty of Social Work	1,16,667=00
5 Equipment for the Faculty of Science	1,56,933=00
6 Equipment for the Faculty of Technology and Engineering under the Development Scheme	11,700=00
7 Equipment for the Faculty of Home Science	6,667=00
8 Publication of a Critical and Illustrated Edition of Valmiki Ramayana	30,000=00
9 Publication of Gaekwad Oriental Series	10,000=00
10 Development of the English Department Books	3,333=00
11 Development of the Hindi Department	6,666=00
(i) Books	3,333=00
(ii) Collection of manu- scripts and field work	3,333=00
	<hr/>
	6,666=00
12 Development of the Sociology Department Books, Journals and Equipments	5,418=00
13 Development of the Psychology Department	20,533=00
(i) Books and Journals	6,300=00
(ii) Equipment and Apparatus	8,100=00
(iii) Furniture	6,133=00
	<hr/>
	20,533=00
14 Furniture for the University Library	26,425=00
15 Furniture for the buildings of the Faculty of Commerce and the Departments of Economics and Political Science	14,050=00
16 Additional Staff for the Faculty of Science	17,273=90
17 Increase in salaries of the teachers due to revision of scales	30,184=80
G. Grants from the Government of Bombay, Agriculture and Forests Department	
Home Science Wing	21,041=90
(i) Building	2,199=13
(ii) Staff and maintenance	18,842=77
	<hr/>
	21,041=90

<i>Items</i>	<i>Rs.</i>
E. Grants from the Government of Bombay, Industries Department (Bombay State Industrial Research Laboratories)	
Studies on 'Food Yeast'	
8. Construction Division	20,120=00

(1) Personnel

Shri N. B. Patel continued to be the University Engineer during the year under report. He was assisted by a staff of one Deputy Engineer, two Assistant Deputy Engineers, 53 Class III and 21 Class IV servants.

To increase the efficiency of the staff and lessen the burden of routine work of the University Engineer so as to enable him to give more time for and attention to major technical problems, three Sub-Divisions were established from the 1st July, 1958. The Deputy Engineer and the two Assistant Deputy Engineers were placed each in charge of one Sub-Division. As experience of one year showed that the Sub-Divisions were not very successful in fulfilling the abovementioned purpose, they were abolished on the 30th June, 1959.

(2) Original Works completed:

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

<i>Description of the work</i>	<i>Expenditure on the building or work during the year Rs.</i>	<i>Total Expenditure on the building/works upto the 30th June, 1959 Rs.</i>
I Faculty of Technology and Engineering		
(i) Providing D. A. plug points and light points in the Applied Mechanics Department	575=83	825=31 8,70,113=64
(ii) Extension of the Building of Central Hall of the Kalabhavan	328=85	
(iii) Cold room for the Bio-chemistry Department	79=37	

<i>Description of the work</i>	<i>Expenditure on the building of work during the year Rs.</i>	<i>Total Expenditure on the building/works upto the 30th June, 1959 Rs.</i>
II University General Fund		
(i) Second Hall of Residence for Women Students (Shrimati Hansa Mehta Hall)	1,785=65	5,77,109=49
(ii) Fifth Hall of Residence for Men Students (Shri K. M. Munshi Hall)	12,376=17	5,84,551=21
(iii) Shed for Stone Carving and Pottery Department in the Faculty of Fine Arts	4,591=54	26,366=69
(iv) Preparing roads in the compound of the Social Education Organisers' Training Centre	1,657=27	5,001=07
III. Special Heavy Repairs:		
(i) Constructing a temporary shed for Police Guards for the 6th Bombay Battalion N.C.C., Baroda	1,017=65	1,017=65
(ii) Renewing Gas and Waterpipe line in the Faculty of Science	56=00	13,814=36
(iii) Renewing flooring of the Baroda College building	190=20	15,491=56
IV. Depreciation Fund:		
(i) Thorough repairs to the roof of the College of Indian Music, Dance and Dramatics	7,924=34	32,575=04
(ii) Renewing the dilapidated wooden verandah in Dhanvantary and Chameli Bag Bungalows	2,990=23	9,035=77

Description of the work	Expenditure on the building or work during the year Rs.	Total Expenditure on the building/works upto the 30th June, 1959 Rs.
V. Sheth U. P. A. R. Unit :		
(i) Approach road to Ras-shala	705=64	705=64
VI. Works of Grants :		
(i) Additional buildings to the Faculty of Technology and Engineering under Ghosh-Chandrakant Scheme	85,903=11	1,83,352=80
(ii) Vivarium for Zoology Department of the Faculty of Science	8,332=70	12,687=05
(iii) Common Room for Women Students in the Faculty of Arts	1,032=33	49,960=70
(iv) Extension to the building of the Faculty of Education and Psychology for Psychology Department	109=39	1,17,254=12
(v) Art-wing-cum-Model Information Centre with stage at the Social Education Organisers' Training Centre at Samiala	12,913=25	18,448=17

(3) Works in Progress :

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

I. Faculty of Technology and Engineering :

(i) Constructing an Exhibition Hall between Weaving and Spinning Sections of the Faculty of Technology and Engineering	19,227=78	19,289=62
(ii) Asphaltting the road in the Workshop of the Faculty of Technology and Engineering	9,972=01	11,839=03

Description of the work	Expenditure on the building or work during the year Rs.	Total Expenditure on the building/works upto the 30th June, 1959 Rs.
(iii) Extension of Heat Engines Laboratory in the Faculty of Technology and Engineering	23,034=29	23,035=29
(iv) Acquiring land on Piramitar Road for Extension of Textile Chemistry Department	16=40	16=40
(v) Extension of the Boiler Shed in the Faculty of Technology and Engineering	430=42	768=14
Press Account :		
New Building of the University Press	1,97,122=85	3,16,110=82
II. University General Fund :		
(i) Water-supply Scheme for University Campus	4,026=55	1,32,766=18
(ii) University Library Building	24,930=81	12,42,356=76
(iii) Additional (different) works at Samiala	14,383=96	62,452=17
(iv) Constructing a new building for the 18th Bombay Engineering Platoon	34,340=28	34,340=28
(v) Constructing a new building for the 5th Bombay Girls' Troops	51,929=84	51,929=84
(vi) Home Management House	7,761=46	7,761=46
III. Works of Grants :		
(i) Works of New Diploma Institute :		
(i) (a) Polytechnic	4,84,905=97	7,05,549=85
(b) Well near Polytechnic	2,487=49	4,412=98
(c) Constructing three Hostels with Wardens' quarters for students of the Polytechnic	286=21	286=21

<i>Description of the work</i>	<i>Expenditure on the building or work during the year</i> Rs.	<i>Total Expenditure on the building works upto the 30th June, 1959</i> Rs.
(ii) Extension to the Building of the Faculty of Science	1,15,936=84	1,31,989=53
(iii) Building of the Faculty of Social Work	1,65,286=31	1,92,789=45
(iv) Building of the Faculty of Commerce	1,91,235=72	2,75,165=67
(v) Extension to the Building of the College of Indian Music, Dance and Dramatics	53,134=03	66,479=44
(vi) New Building for the Department of Archæology	16,388=54	16,388=54
(vii) Constructing a Building for Hobby Workshop	21=00	21=00
(viii) Constructing additional Wing to Social Sciences Block for Sociology Department	43=50	43=50
(ix) Constructing a Building for Students' Health Centre at Baroda	38=79	38=79
(x) Constructing a Building for the General Education Centre (Grant from Ford Foundation)	1,99,272=89	1,99,292=39

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

The works of Ordinary and Special Repairs were carried out throughout the year as per requirements of the University Office and the different Faculties and Institutions. All the gardens except the Botanical Gardens were looked after and maintained by the Construction Division.

CHAPTER II—OFFICERS AND AUTHORITIES OF THE UNIVERSITY

1. Officers

(1) *The Chancellor*

His Highness Maharaja Fatehsinrao Gaekwad, Maharaja of Baroda was the Chancellor of the University during the year.

(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 year. He attended the following meetings and social functions in India and abroad :

- (a) Preliminary meetings of executive heads of member Universities in Toronto from the 25th to the 29th August, 1958 and the Eighth Quinquennial Congress of the Universities of British Commonwealth in Montreal, Canada from the 1st to the 5th September, 1958. On his way back he toured in U. S. A., U. K. and Germany and visited several Universities and other educational centres ;
- (b) Joint Board of Vice-Chancellors of the Bombay State Universities at Nagpur on the 21st December, 1958 ;
- (c) Annual social function of the Jayendrapuri Arts and Science College, Broach on the 2nd January, 1959 ;
- (d) Golden Jubilee Celebration of the Indian Institute of Science at Bangalore from the 2nd to the 4th February, 1959 ;
- (e) Archaeological Department Excavation camp at Maheshwar from the 10th to the 12th February, 1959 ;
- (f) Thirty-fourth Annual meeting of the Inter University Board of India and the Eighth Quinquennial Conference at Chandigarh from the 24th to the 27th February, 1959 ;
- (g) Meeting with the officers of the Ford Foundation at Delhi on the 2nd March, 1959.

The Vice-Chancellor also delivered a lecture on ' Trends of Economic Policy during the last ten years ' at the Theosophical Society, Baroda on the 20th July, 1958.

(3) *The Pro-Vice-Chancellor*

Dr. C. S. Patel, B.A., M.Sc., Ph.D. continued to work as the Pro-Vice-Chancellor under Statute 120. He was also elected as the Pro-Vice-Chancellor for a further period of three years from the 1st May, 1959. He attended the following meetings in India during the year :

- (a) The Bombay State Industrial Research Sub-Committee at Bombay on the 23rd September, 1958;
- (b) The Golden Jubilee Celebration of the Indian Institute of Science, Bangalore from the 2nd to the 4th February, 1959;
- (c) The Inter-University Board of India and the Eighth Quinquennial Conference at Chandigarh from the 25th to the 28th February, 1959.

(4) *Deans of the Faculties :*

The following persons continued to work as Deans of the respective Faculties during the year :

<i>Faculty</i>	<i>Name of the Dean</i>
Arts	Professor V. Y. Kantak, M.A.
Science	Professor N. M. Bhatt, M.Sc., LL.B., Ph.D., F.S.S.
Education and Psychology	Professor T. K. N. Menon, B.A., Dip. in Edu., M.A. (Edu.).
Commerce	Professor V. Y. Kolhatkar, M.Com., M.Sc. (upto 23-3-1959). Professor B. G. Shah, M.Com. (from 24-3-1959).
Medicine	Dr. A. N. deQuadros, M.B., B.S., D.P.H., F.R.C.S. (upto 8-6-1959). Dr. J. D. Pathak, B.Sc., M.D., F.C.P.S. (from 9-6-1959).
Technology and Engineering	Professor D. Subbarao, B.E. (Civil), A.M.I.E.
Fine Arts	Professor Markand Bhatt, G.D. (Art), M.A.
Home Science	Professor (Kumari) Justina Singh, M.Sc.
Social Work	Shrimati Indra S. Tayal, B.S., M.S., M.S.W.

(5) *The Registrar*

Shri B. M. Nanavaty, B.A., D.Ed., Deputy Registrar continued to work as Acting Registrar from the 1st July, 1958. Shri B. K. Zutshi,

M.A., LL.B., the Registrar returned from his study tour of the U.S.A. and resumed his duties on the 21st July, 1958 and continued to work till the end of the year.

(6) *The Librarian*

Dr C. P. Shukla, M.A., B.T., M.A. (L.S.), Ph.D., continued to work as the University Librarian during the year.

(7) *Other Officers*

	<i>Name</i>	<i>Designation</i>
(i)	Professor B. J. Sandesara M.A., Ph.D.	Director Oriental Institute
(ii)	Professor R C Mehta B.A.	Principal, College of Indian Music, Dance and Dramatics
(iii)	Shri H. C. Mehta, M.A., B.T.	Principal, Sanskrit Mahavidyalaya
(iv)	Professor C. M. Shukla, B.A. (Hons.); M.A.	Principal, Preparatory Classes Unit
(v)	Professor L. B. Shah, B.Sc., M.Sc. (Tech.), A.M.C.T., A.M.I.E	Principal, Polytechnic
(vi)	Shri G. P. Bhatt, M A., B.T., M.Ed.	Principal, University Experimental School

2 *Authorities*(1) *The Senate*

The Senate consisted of 95 members during the year. The following were the changes in the membership of the Senate during the year :

(a) Justice Shri G. B. Badkas, Vice-Chancellor, Nagpur University became an ex-officio Fellow of the Senate from the 16th January, 1959 vice Justice Shri K. T. Mangalmurthy.

(b) Professor D. G. Karve, Vice-Chancellor, Poona University, became an ex-officio Fellow of the Senate from the 1st June, 1959 vice Dr. R. P. Paranjapye.

(c) Shri B. J. Patel, Vice-Chancellor, Sardar Vallabhbhai Vidya-peeth became an ex-officio Fellow of the Senate from the 19th December, 1958 vice Shri B. D. Patel.

(d) Shri S. R. Dongerkery, Vice-Chancellor, Marathawada University became an ex-officio Fellow of the Senate from the 19th July, 1958.

(e) Justice Shri K. T. Desai became an ex-officio Fellow of the Senate from the 14th August, 1958 vice Justice Shri D. V. Vyas, retired.

(f) Shri B. G. Shah became an ex-officio Fellow of the Senate consequent upon his appointment as the Dean, Faculty of Commerce from the 24th March, 1959.

(g) Kumari S. Panandikar, Director of Education became an ex-officio Fellow from the 18th August, 1958 vice Shri S. S. Bhandarkar, retired and Dr. A. G. Pawar, Director of Education became an ex-officio Fellow of the Senate from the 9th April, 1959 vice Kumari S. Panandikar, retired.

(h) Dr. R. L. Nagpal became an ex-officio Fellow of the Senate from the 2nd March, 1959 vice Shri D. G. Kelkar, transferred.

(i) Shrimati Perviz Markand Bhatt was elected a Fellow of the Senate by the teachers of the Faculty of Social Work from the 9th February, 1959.

(j) Shri K. R. Mehta was nominated by the Government of Bombay as a Fellow of the Senate on the 15th July, 1958.

(2) *The Syndicate :*

The Syndicate elected in September-October 1957 assumed office on the 1st November, 1957. The following persons continued to be the members of the Syndicate during the year :—

- (a) Dr. Jyotindra M. Mehta, Vice-Chancellor
- (b) Dr. C. S. Patel, Pro-Vice-Chancellor
- (c) Shrimati Hansa Mehta
- (d) Dr. Jivraj N. Mehta
- (e) Dr. B. B. Yodh
- (f) Shri B. B. Joshi
- (g) Shri D. M. Parikh
- (h) Shrimati Ansuya I. Amin
- (i) Professor T. K. N. Menon
- (j) Professor V. Y. Kantak
- (k) Professor N. M. Bhatt
- (l) Professor D. Subbarao
- (m) Dr. T. V. Patel

There were two vacancies on the Syndicate and the same were not filled in during the previous year. During the year Shrimati Hansa Mehta and Shri J. S. Parikh were elected to the Syndicate on the 26th October, 1958.

CHAPTER III—THE SENATE

1. Number of meetings

The Senate met twice during the year on the 26th October, 1958 and the 26th April, 1959 respectively.

2. Attendance

62 members attended the meeting held on the 26th October, 1958 and 58 members attended the meeting on the 26th April, 1959.

3. First meeting

At the first meeting of the Senate held on the 26th October, 1958 a condolence resolution mourning the death of Dr. Sundararajan, Reader in Co-operation, Faculty of Commerce was passed. The following business was transacted :

(1) Shrimati Hansa Mehta and Shri J. S. Parikh were elected to the Syndicate for a period upto the 31st October, 1960.

(2) Professor R. C. Mehta and Professor P. J. Madan were elected to the Board of Extra Mural Studies for a period upto the 29th September, 1960.

(3) The following Fellows were assigned to the Faculty/Faculties mentioned against their respective names :

S. No.	Name	Faculty/Faculties
1	Dr. Jyotindra M. Mehta	Arts and Commerce
2	Shrimati Hansa Mehta	Arts, Home Science and Social Work
3	Shri S. R. Dongerkery	Arts
4	Justice Shri K. T. Desai	Arts
5	Professor C. M. Shukla	Arts
6	Dr. C. P. Shukla	Arts
7	Kumari S. Panandikar	Education and Psychology
8	Shri M. C. Dayamakumar	Science
9	Shri S. A. Sabnis	Education and Psychology
10	Shri A. V. D'Costa	Technology and Engineering
11	Shri M. T. Vyas	Education and Psychology
12	Shri K. R. Mehta	Arts,

(4) Renewal of lapsed grants amounting to Rs. 42,116/- in the revenue budget and Rs. 2,30,725/- in the capital budget and supplementary grants amounting to Rs. 1,48,052/- in the revenue budget and Rs. 34,150/- in the capital budget were sanctioned.

(5) Amendments and additions made to Ordinances mentioned in Pamphlet No. 6 of Handbook Part II, 1956 and Pamphlet No. 4 of Handbook Part III, 1955 were considered and passed.

(6) Amendment to Statute 199 in the matter of addition of the degree of 'Master of Surgery (Orthopaedics)' was passed.

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

I Faculty of Arts

- (a) Senior Lecturer in English
- (b) Junior Lecturer in Sociology

II Faculty of Science

- (a) Junior Lecturer in Botany
- (b) Junior Lecturer in Chemistry
- (c) Junior Lecturer in Physics

III Faculty of Education and Psychology

- (a) Junior Lecturer in Education
- (b) Junior Lecturer in General Education

IV Faculty of Technology and Engineering

- (a) Reader in Architecture

(8) The following resolution was passed :

"That the degree of Doctors of Letters (LL.D.) *Honoris Causa* be conferred on Shrimati Hansa Mehta in recognition of her long and meritorious services to the University as its first Vice-Chancellor and her eminent position and attainments in the educational and literary spheres in the country".

4. Second meeting :

At the second meeting of the Senate held on the 26th April, 1959 condolence resolutions mourning the deaths of Dr. M. R. Jayakar, Shri D. N. Desai, Professor G. B. Pandya and Shri V. A. Nikte were passed. The following business was transacted :

(1) Dr. C. S. Patel, was elected Pro-Vice-Chancellor for a period of three years from the 1st May, 1959.

(2) The following Fellows were assigned to the Faculty/Faculties as mentioned against their respective names :

S. No.	Name	Faculty/Faculties
1.	Justice Shri G. B. Badkas	Arts
2.	Shri B. J. Patel	Arts
3.	Dr. R. L. Nagpal	Technology and Engineering
4.	Shrimati Perviz M. Bhatt	Social Work
(3)	The Annual Financial Statement comprising :	
	(a)	the revised estimates for the revenue budget for the year 1958-59 and the estimates for revenue budget for the year 1959-60 and
	(b)	the revised estimates for the capital budget for the year 1958-59 and the estimates for the capital budget for the year 1959-60

were considered and passed.

(4) Amendment to Statute 91 prescribing the number of members in the Board of Studies in Geography and the Board of Studies in Geology was passed.

(5) Amendment to Statute 136(1) in the matter of revising the grade of the Registrar was passed.

(6) Amendment to Statute 199 in the matter of introducing new post-graduate courses leading to (i) Professional Diploma in Educational Administration, (ii) Professional Diploma in Applied Linguistics and (iii) Diploma in Nursery School Education was passed.

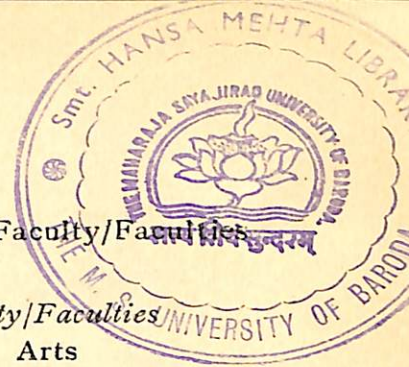
(7) Report of the Syndicate on the reference back of the amendment of Statute 199 in the matter of addition of Diploma in Gynaecology and Obstetrics was considered and passed.

(8) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 7 of Handbook Part II-1956 and in Pamphlet No. 5 of Handbook Part III-1955 were considered and passed.

(9) The Ninth Annual Report and the Ninth Annual Accounts of the University for the year 1957-58 were considered and passed.

(10) The report of the Board of Accounts on the Annual Accounts of the University for the year 1957-58 was approved.

(11) The designations of teachers *viz.* 'Senior Lecturer' and 'Junior Lecturer' were changed to 'Lecturer' with effect from the 1st April, 1958.



(12) A proposal to institute the following new posts in the University was considered and passed:

I Faculty of Arts

- (a) Professor of Hindi
- (b) Professor of English (with retrospective effect from 17-1-1959)
- (c) Professor of Archaeology
- (d) Reader in Hindi
- (e) Reader in English
- (f) Reader in Sociology
- (g) Reader in Ancient Indian Culture
- (h) Reader in Physical Anthropology
- (i) Lecturer in Hindi
- (j) Lecturer in Politics
- (k) Lecturer in Ancient Indian Culture
- (l) Lecturer in Geology
- (m) Lecturer in Zoology
- (n) Lecturer in Sociology
- (o) Lecturer in Law

II Faculty of Science

Professor or Reader in Physical Chemistry

III Faculty of Education and Psychology

Reader in Educational Administration

IV Faculty of Commerce

- (a) Professor of Co-operation
- (b) Reader in Economics of Growth
- (c) Lecturer in Public Administration
- (d) Lecturer in Co-operation

V Faculty of Fine Arts

- (a) Lecturer in Applied Arts
- (b) Lecturer in Stone Carving
- (c) Lecturer in Dramatics (Production)

VI Faculty of Home Science

Lecturer in Child Development

VII Faculty of Social Work

Lecturer (Social Worker)

(13) The following report of the Syndicate on the reference back to them by the Senate on the following motion of Shri S. A. Sabnis in the matter of the age of superannuation of the University employees was considered and approved:

“Age of superannuation of employees of the University except Class IV staff, be the completion of 58 years, provided however, that

- (i) The Syndicate for reasons of which it is the sole judge can retire any employee, except Class IV staff, on completion of the age of 55 years or thereafter,
- (ii) the pensionary rights of the employees, except Class IV staff, whose pension liability is accepted by the Government of Bombay and the provident fund contribution made by the University for other employees, except Class IV staff, will cease from the date when an employee completes the age of 55 years.”

(14) The following report of the Syndicate on the reference back to them by the Senate on the motion of Shri P. B. Zaveri in the matter of starting of the Faculty of Law was approved:

“The report of the Committee appointed by the Syndicate to consider the question of starting a Faculty of Law and the lines on which legal education should develop in this University, recommending the starting of the Faculty of Law be generally approved.

In addition to one post of Professor, one more full-time Professor be added to the teaching staff.

To enable the University to start the Faculty of Law a fund of Rs. 1,00,000/- be collected in the first instance.”

(15) Shri A. C. Shah was permitted to withdraw the motions regarding starting of an Agriculture College and a Veterinary College.

CHAPTER IV—THE SYNDICATE

1. Number of Meetings

During the year the Syndicate held ten meetings at which they considered and passed resolutions on 1,004 items. Some of the important decisions are mentioned in the following paragraphs.

2. Attendance at the meetings

The following statement shows the attendance of the members at the meetings of the Syndicate during the year :

Name	Number of meetings held	Class of meetings	Present	Absent	Remarks
1 Dr. Jyotindra M. Mehta	10	O. 5 S. 5	O. 4 S. 4.	O. 1 S. 1	
2 Dr. C. S. Patel	10	O. 5 S. 5	O. 5 S. 5	- -	
3 Director of Education or his nominee	10	O. 5 S. 5	O. 3 S. 1	O. 2 S. 4	
4 Shrimati Hansa Mehta	10	O. 5 S. 5	O. 2 S. 2	O. 2 -	Became member from 26-10-1958
5 Dr. Jivraj N. Mehta	10	O. 5 S. 5	O. 5 S. 4	- S. 1	
6 Dr. B. B. Yodh	10	O. 5 S. 5	O. 4 S. 3	O. 1 S. 2	
7 Shri B. B. Joshi	10	O. 5 S. 5	O. 3 S. 3	O. 2 S. 2	
8 Shri J. S. Parikh	10	O. 5 S. 5	O. 4 S. 1	- S. 1	Became member from 26-10-1958
9 Shri D. M. Parikh	10	O. 5 S. 5	O. 5 S. 5	- -	
10 Shrimati Ansuya J. Amin	10	O. 5 S. 5	O. 4 S. 5	O. 1 -	

Name	Number of meetings held	Class of meetings	Present	Absent	Remarks
11 Professor T. K. N. Menon	10	O. 5 S. 5	O. 5 S. 5	- -	
12 Professor V. Y. Kantak	10	O. 5 S. 5	O. 4 S. 4	O. 1 S. 1	
13 Professor N. M. Bhatt	10	O. 5 S. 5	O. 5 S. 5	- -	
14 Professor D. Subbarao	10	O. 5 S. 5	O. 4 S. 4	O. 1 S. 1	
15 Dr. T. V. Patel	10	O. 5 S. 5	O. 5 S. 5	- -	

3. New developments and improvements in the existing departments.

In the Faculty of Arts, the post of Reader in Archaeology was converted into that of Professor of Archaeology. The posts of Reader in Gujarati and Reader in Hindi were filled up. The post of a Senior Lecturer in Philosophy was upgraded to that of Reader in Philosophy as well as the post of Junior Lecturer in Philosophy was converted to that of a Senior Lecturer. Two new posts of Senior Lecturers in Sanskrit and Junior Lecturer in Sociology were created. Suitable special grants were provided for books, contingency and equipment for research and publications. A special provision was made for water coolers and the necessary pipeline, etc. for the drinking water in the campus of the Faculty of Arts.

In the Faculty of Science new post of lecturers in the departments of Geography and Zoology as well as Demonstrator in Statistics and Tutors in Geography and Mathematics were created. Additional amounts for the books and contingencies as well as deadstock were sanctioned. An amount of Rs. 3,000/- was sanctioned for equipment in Zoology Department and an amount of Rs. 5,000/- for the Animal House was provided for the Bio-Chemistry Department.

In the Faculty of Education and Psychology, a post of Senior Lecturer in Psychology was converted into that of a Reader and a new post of a Senior Lecturer in Education was created due to the revision of the B.Ed. syllabus. Also two new posts of (1) a Demonstrator in

Psychology and Tutor in Psychology were created for the new Psychology Wing. Necessary contingencies for the new Psychology Wing were also sanctioned.

In the Faculty of Technology and Engineering new posts of one Professor, four Readers, three Senior Lecturers, eight Junior Lecturers and twelve Demonstrators were filled up. An amount of Rs. 5,000/- was sanctioned for the cost of tables and chairs. An additional amount of Rs. 4,000/- was also sanctioned for books for Reference and Research.

In the Faculty of Fine Arts new posts of Reader in Art History, Junior Lecturer in Painting and Senior Lecturer in Pottery and Ceramics were created. However, the posts of Reader in Art History and Senior Lecturer in Pottery and Ceramics could not be filled up for want of suitable persons.

In the Faculty of Home Science the post of Professor in Home Management and Clothing and Textile was filled up. Also the posts of a Reader, a Senior Lecturer and a Demonstrator were filled up. An amount of Rs. 25,000/- was sanctioned for the purchase of a new bus for the Chetan Balwadi. An amount of Rs. 3,000/- was also sanctioned for the purchase of equipment in Textile and Clothing.

In the Oriental Institute a new post of General Editor, Ramayan Department with necessary independent staff was created to speed up the work of the scheme of editing and publishing the critical edition of Valmiki Ramayana. An additional amount of Rs. 1,500/- was provided for reference books.

4. Honorary Professors

The provision for inviting eminent scholars and experts in specialized branches of knowledge as Honorary and Visiting Professors and Lecturers was continued this year also. Under the scheme the following were continued or invited to work as Honorary Professors or Lecturers during the year :

Name	Subject of Specialization	Faculty/Institution
(a) Honorary Professors :		
(i) Professor C. C. Mehta	Dramatics	College of Indian Music, Dance and Dramatics.
(ii) Professor H. K. Doring	Modelling and Display Techniques	Department of Museology, Faculty of Fine Arts.

Name	Subject of Specialization	Faculty/Institution
(b) Honorary Lecturers :		
(i) Shri L. B. Shastri	Aesthetics	Faculty of Fine Arts.
(ii) Shrimati Mirabai Badkar	Music	College of Indian Music, Dance and Dramatics.
(iii) Shri Gulam Rasulkhan	Music	College of Indian Music, Dance and Dramatics.
(iv) Shri G. M. Jadhav	French and German	Faculty of Technology and Engineering.
(v) Shrimati Vinodini Mayor	Mathematics	Faculty of Science.

In addition to the above some other eminent persons were also invited to deliver lectures, the details of which are given in Chapter XXV.

5. Research Assistants and Research Students :

The Scheme of appointing Research Assistants and Research students was continued during the year and there were 5 Research Assistants and 6 Research Students working in the University under this scheme.

6. Additional grants for research :

In addition to the amounts sanctioned in the revenue budget and grants received from Government and other research bodies, the University also considered the schemes of surveys, research studies etc. and sanctioned necessary grants for books, equipment, contingencies, etc. to improve facilities for research work. Some schemes approved previously were continued and some additional schemes were sanctioned during the year. Additional grants sanctioned during the year were as follows :

Department/Faculty	Particulars	Amount sanctioned
Economics	Books, Field work and Research	1,500
Gujarati	Scheme of publication of critical editions of old Gujarati Texts	6,350
	Publications of late Professor B. K. Thakore	2,135
History	Scheme of Research in Muslim History of Gujarat	1,700
	Research in Modern Indian History	7,500

<i>Department/Faculty</i>	<i>Particulars</i>	<i>Amount sanctioned</i>
Sanskrit	Publication of a translation of 9th Mandal of Rigveda	2,400
Sociology	Library books, equipment, contingency, etc.	10,300
Politics	Books, Research documents, contingencies, etc.	7,150
	Survey of Rural Local Government in Baroda Taluka	2,250
Science	Citric Acid Scheme	2,250
Education and Psychology	Apparatus, equipment, printing, stationery etc.	3,500
Technology and Engineering	Research work on Taj Mahal	1,500
General	Scheme of compilation of Chronology of Gujarat	13,700
	Publication of Research papers	3,000
Banking	Staff, Books, equipment, etc.	16,155
Archaeology	Explorations, excavations, museums, etc.	18,450
Museology	Staff, books, equipment, etc.	30,956
		<u>1,30,796</u>

CHAPTER V—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-graduate Studies and Research

The Council of Post-graduate Studies and Research held three meetings during the year on the 24th July, 1958, on the 12th January and on the 20th April, 1959 and considered in all 44 items referred to it.

The following are some of the main items considered by the Council :

(i) Research Schemes :

(a) The Council recommended for approval the following new Research Schemes :

(i) " A Scheme for Statistical Analysis of Preparatory Science Examination Results " submitted by Professor N. M. Bhatt, Dean, Faculty of Science,

(ii) " Biosynthesis of Carotenoids in the Micro-Organisms " submitted by Dr. V. V. Mody, Lecturer in Bio-chemistry, Faculty of Science,

(iii) " Studies on effect of Protein Malnutrition on the Mental Development " submitted by Dr. C. V. Ramkrishnan, Head, Dr. K. G. Naik, Bio-chemistry Department, Faculty of Science,

(iv) " Interaction of (a) arsanic acid and (b) Stibanitic acid respectively with the bromo derivatives of the substituted amides of cyanoacetic acid " and " Interaction of ethyl (orthoformat with substituted amides) respectively of (1) malonic, (2) acetoacetic and (3) cyanoacetic acids : Synthesis of quonotine derivatives on subsequent cyclisation " submitted by Dr. C. M. Mehta, Reader in Organic Chemistry, Faculty of Science and,

(v) The effect of Structure on the Transition Temperature of Mixed Liquids Crystals " submitted by Dr. J. S. Dave, Reader in Inorganic and Physical Chemistry, Faculty of Science.

The Syndicate approved the schemes on the recommendation of the Council.

(b) The Council recorded the progress reports of the following research schemes :

(i) 14th and 15th half yearly report of " Critical editions of Old Gujarati Texts " submitted by Professor B. J. Sandesara, Head, Gujarati Department, Faculty of Arts, and

(ii) " Rgveda—Interpretation and Translation " submitted by Dr. S. S. Bhawe, Head, Sanskrit Department, Faculty of Arts.

(2) The Council recommended that the

(i) Haffkine Institute, Bombay-12 and

(ii) Physical Research Laboratory, Ahmedabad-9, be recognised for carrying on research by our students for the Ph D. degree of this University.

The Syndicate approved the recommendation.

(3) The Council recommended that the post of the Tutor in Midwifery in the Medical College, Baroda be recognised as an approved appointment for purposes of post-graduate study for the degree of M.D. in Branch V—Obstetrics and Gynaecology.

(4) The Council recommended that the Ordinances for the degree of Vachaspati be approved.

(5) The Council recommended that Shri Mahendra Pratap Singh be appointed as a Research Student for carrying on research on " Bhagvantraï Khichi aur Unke Mandal ke Kavi " in the Hindi Department, Faculty of Arts.

(6) The Council recommended the recognition of the following teachers as post-graduate teachers for the diplomas/degrees and subjects shown against each of them. The recommendation was approved by the Syndicate.

Faculty of Arts :

Name	Diploma/Degree	Subject
1. Shri Chandra Prakash Singh	(i) M.A. (ii) Ph.D.	Hindi

Name	Diploma/Degree	Subject
2. Shri B. L. Shanbhogue	M.A.	Sahitya, Sankhya and Yoga
3. Shri D. D. Mahulkar	M.A.	Linguistics
4. Dr. A. N. Jani	Ph.D.	Sanskrit
5. Shri A. C. Chandola	M.A.	Hindi
6. Shri L. J. Jha	(i) M.A. (ii) Vachaspati	Jyotish Shastra Sanskrit
7. Dr. R. M. Patel	M.A.	Gujarati
8. Dr. (Kumari) Prem Pasricha	(i) M.A. (ii) M.Ed.	Psychology
Faculty of Science		
9. Dr. C. H. Pathak	(i) M.Sc. (ii) Ph.D.	Botany
10. Shri C. G. Khatri	M.Sc.	Statistics
11. Shri G. K. Trivedi	M.Sc.	Physics
12. Shri M. J. Shah	M.Sc.	Inorganic Chemistry
13. Shri C. J. Shah	M.Sc.	Organic Chemistry
14. Shri A. N. Godbole	M.Sc.	Inorganic Chemistry
15. Dr. V. V. Modi	(i) M.Sc. (ii) Ph.D.	Bio-chemistry
(Physical Research Laboratory, Ahmedabad-9)		
16. Dr. K. R. Ramnathan	Ph D.	Physics—Atmospheric Physics
17. Dr. Vikram A. Sarabhai	Ph.D.	Cosmic Ray Physics
18. Dr. U. D. Desai	Ph.D.	Physics—Electronics
19. Dr. R. P. Kane	Ph.D.	Physics—Cosmic Ray Physics
20. Dr. S. P. Pandya	Ph.D.	Physics—Theoretical Physics
Faculty of Education and Psychology		
21. Shri M. B. Buch	M.Ed. (By papers and Dissertation)	Education, Educational Research, Educational Measure- ment
22. Shri B. P. Lulla	M.Ed. (By papers and Dissertation)	History and Admin- istration of Education

Name	Diploma/Degree	Subject
23. Shri R. S. Thakar	M.Ed. (By papers and Dissertation)	Education
24. Shri M. M. Shah	M.Ed. (By papers and Dissertation)	Education
25. Shri L. J. Bhatt	Diploma in Guidance and Counselling	Guidance and Counselling
26. Shri T. P. Lele	Diploma in Guidance and Counselling	Guidance and Counselling
27. Dr. A. S. Patel	Diploma in Guidance and Counselling.	Guidance and Counselling

Faculty of Technology and Engineering

28. Professor C. H. Khadilkar	M.E. (Civil)	Public Health Engineering
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Faculty of Social Work

29. Kumari I. M. Patel	M.S.W.	Social Work (Professional)
30. Kumari V. S. Telang	M.S.W.	Social Work (Professional)
31. Kumari S. R. Contractor	M.S.W.	Social Work (Professional)
32. Shri S. R. Yardi	M.S.W.	Social Work (Professional)
33. Shri M. N. Bazmi	M.S.W.	Social Work (Professional)

2. Faculties

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

S. No.	Name of the Faculty	Date of the meeting
(i)	Arts	(a) 11th January, 1959 (b) 26th April, 1959
(ii)	Science	11th January, 1959
(iii)	Education and Psychology	8th February, 1959
(iv)	Commerce	11th January, 1959

S. No.	Name of the Faculty	Date of the meeting
(v)	Medicine	28th September, 1958
(vi)	Technology and Engineering	20th December, 1958
(vii)	Fine Arts	14th February, 1959
(viii)	Home Science	20th September, 1958
(ix)	Social Work	18th October, 1958
(x)	Joint meeting of the Faculties of Arts, Science and Commerce	11th January, 1959
(xi)	Joint meeting of the Faculties of Arts and Commerce	11th January, 1959
(xii)	Joint meeting of the Faculties of Home Science and Education and Psychology	8th February, 1959

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

(a) Faculty of Arts

- (i) Institution of a course in American Literature at the M.A. as a Subsidiary subject,
- (ii) Syllabi, Courses, etc. for six papers in Hindi as a Principal subject at the M.A.,
- (iii) Revision of syllabi in Sociology at the three-year B.A. examination and M.A. examination,
- (iv) Provision for the teaching of one paper in Linguistics at the First Year B.A. examination,
- (v) Regulations for submission of dissertation in respect of the M.A. course in Psychology,
- (vi) Duration of the Post-graduate Diploma course in ' Guidance and Counselling ' be one academic year for full time students and two academic years for part-time students,
- (vii) Introduction of the modified pattern of the three year integrated courses in the Faculty of Arts from June, 1959,
- (viii) Students of the current B.A. course be examined in English (Compulsory) at the end of the Second Year and they may be required to obtain 35% of the total marks for passing, but these marks be not considered for awarding classes, etc. while deciding the result at the final year examination,

(ix) A minimum of 30% in each paper be prescribed for passing at the M.A. examination for students joining from June, 1959 and onwards, and

(x) Report of the Committee on the working of the Tutorial System in the Faculty.

(b) Faculty of Science

(i) Books recommended for the examinations in Physics for Preparatory Science, Pre-Medical, F.Y.B.Sc., F.E. (New), S. Y. B.Sc. (Physics—Subsidiary) and S.Y. B.Sc. and Third Year B.Sc. (Physics—Principal),

(ii) Syllabus and the recommended books for the M.Sc. Physical Chemistry course,

(iii) Revised Units of the syllabi for Pre-Medical and First Year B.Sc. course in Botany,

(iv) Recommended a new course of 'Avian Biology' with its syllabus as an alternate special subject under Paper IV of M.Sc. Zoology,

(v) Modified rules about A.T.K.T. (Allowed To Keep Terms) for F.Y.B.Sc., S. Y. B.Sc. and Final B.Sc.,

(vi) Recommended percentages for Pass and Classes at the S. Y. B.Sc. Examination, and

(vii) Recommended minimum percentage of marks in tutorials for sending up students for the examinations.

(c) Faculty of Education and Psychology

(i) Syllabi, scheme of examination, etc. for the Professional Diploma in Educational Administration,

(ii) Regulations for dissertation in respect of the M.A. course in Psychology,

(iii) Duration of the course for the part-time students who want to take the course leading to the Post-graduate Diploma in Guidance and Counselling,

(iv) Subjects to be considered as allied to Psychology, and

(v) Syllabi, scheme of examination, etc. for the Professional Diploma in Applied Linguistics.

(d) Faculty of Commerce

(i) Amendment of Ordinances 434 and 437 regarding admission and syllabi of the B.A. pass students to the B.Com. course in view of the introduction of the three year degree courses in the Faculties of Arts and Commerce, and

(ii) Amendment of Ordinance 453 of the Diploma in Banking course to provide for carrying forward the marks obtained by a failed candidate in the Report on six months' training in Banks to subsequent examination.

(e) Faculty of Medicine

(i) Inspection Report on facilities for teaching and standard of examination for M.Sc. (Physiology) submitted by the Inspectors of the Medical Council of India and the question whether candidates with a B.Sc. degree in subjects other than Physiology be considered eligible for admission to the M.Sc. course in Physiology,

(ii) Amendment of Ordinance 762 with a view to include besides the theory, practicals in Anatomy and Physiology at the M.Sc. Examination,

(iii) Inspection Report on facilities of teaching and standard of examination for (1) M.D. (Pathology), (2) M.D. (Medicine), (3) M.S. (Surgery) and (4) D.L.O.,

(iv) 'Obstetrics' to be substituted for the word 'Midwifery' and the Ordinances to be altered accordingly, and

(v) The Government of Bombay to be requested that to enable students who have passed the qualifying examination (*viz.* the final M.B., B.S.) to carry out the post-examination training and the Bombay Medical Council be approached to permit provisional registration to such students and that on the completion of the post-examination period under the University Ordinance in this regard, they may be given permanent enrolment in the Bombay Medical Register on the receipt of Provisional Passing Certificate to that effect from the University, and

(vi) Distribution of the period of post-examination training as under:

- (i) Shri Sayaji General Hospital 4 months
(3 months for medicine and allied specialities & 2 months for Surgery and allied Specialities)
- (ii) Health Centre, Padra 4 months
- (iii) Hospital attendance in a district area 4 months

(f) Faculty of Technology and Engineering

- (i) Draft syllabi, Ordinances, etc. for the M.E. (Civil) course in Public Health Engineering,
- (ii) Revision of the T.E. (New) and B.E. (New) syllabi,
- (iii) Introduction of 'Essay' as a compulsory subject carrying 50 marks at the B.E. (C.M.E.) examinations,
- (iv) Provision of allowing students who fail at the S.E. (C.M.E.), S. Text. (Eng.), and the S. Text. (Tech.) in the Old Course to appear at the corresponding Third Year Examinations in the New Course provided they attend lectures and do the practicals in certain subjects,
- (v) Provision for admission of students who have passed the F.Y. Diploma (C.M.E.) examination of this University with first class in addition to their having passed the Inter Science or F.Y. B.Sc. examination to the corresponding S.E. (New) Degree courses,
- (vi) Provision for admission of students who have passed the F.Y. Diploma (C.M.E.) examination of this University with first class in addition to their having passed the Preparatory Science Examination or an equivalent examination to the corresponding F.E. (New) Degree courses,
- (vii) Fixing of the standards of passing at M.E. to 40% in each paper and 45% of the total for a Pass, and 50%, 60% and 70% of the total for Second, First and First class with Distinction respectively, and
- (viii) Draft syllabus for Paper I—Elements of Economics to be taken at the S.E. (T.E. New) examination.

(g) Faculty of Fine Arts

- (i) Continuing present certificate course in Process and Block-making with the addition of the new topics, viz.
(i) Typography and (ii) Slide making,
- (ii) Revision of the Grade and Credit System,
- (iii) Reintroduction of the teaching of 'Wood carving' in the First Year class of the Faculty from the year 1959-60,
- (iv) Admission requirements for M.A. (Fine) Art Criticism course,
- (v) Introduction of a diploma course in Graphic Reproduction,
- (vi) Report of the Committee appointed by the Board to suggest plans for getting suitable books prepared in the Hindi Language covering the courses taught in the Faculty,
- (vii) Introduction of the Grade and Credit System at various examination in Architecture,
- (viii) Revision of syllabi in 'Water Supply and Sanitary Engineering' for various examinations in Architecture,
- (ix) Introduction of Diploma in Performers' Specialised Course (Vocal Music),
- (x) Revision of M.Mus. course in Music,
- (xi) Report of the committee appointed by the Board for drawing up list of books in Hindi in Degree and Diploma Courses in Dramatics,
- (xii) Admission requirements for direct admission to the higher-classes in Degree and Diploma in Music, Dance and Dramatics,
- (xiii) Revision of admission requirements for the Diploma and Degree courses in Music, Dance and Dramatics, and
- (xiv) Revision of the syllabi for the Post-graduate Diploma Course in Museology.

(h) Faculty of Home Science

Revision of the Scheme for the M.Sc. (Home) examination in Foods and Nutrition and Child Development.

(i) Faculty of Social Work

- (1) Curriculum and reading list for the academic years 1959-1961 for the Faculty.
- (2) Rules and Regulations for the Faculty.

(j) Joint Faculties of Arts, Science and Commerce

- (i) Laying down uniform standard for pass, class, exemption, distinction, etc. for the Bachelor's degree and the Master's degree examinations in Arts, Science and Commerce as recommended by the Examination Reforms Committee, namely 40% of the aggregate for pass, 50% of the aggregate for second class and exemption, 60% of the aggregate for first class and 70% of the aggregate for distinction.
- (ii) Addition of two new papers namely, (1) Fourier Transforms to Theory of Numbers in the lists of special papers VII and VIII in Mathematics for the M.Sc. examination,
- (iii) Introduction of courses in Cartography for the M.A. and M.Sc. Examinations in Geography, and
- (iv) Provision for the teaching of Mathematics and Statistics as one of the subjects at the First Year B.A. and as an allied subject at the Second and Third Year of the B.A. examination from June, 1959.

(k) Joint Faculties of Arts and Commerce

Introduction of a paper on International Politics as a compulsory paper in the scheme of six papers and combining paper IV Public Administration and paper V Local Government with special reference to India, into one paper in the revised syllabus of Political Science at the B. A. (Special).

(1) Joint Faculties of Education and Psychology and Home Science

Scheme of the Post-graduate Diploma in Nursery School Education for the training of Pre-Primary teachers.

3. Boards of Studies

There are 37 Boards of Studies. Their meetings were held in the year as shown below :

	<i>Name of the Board</i>	<i>Date of the meeting</i>
(i)	Sanskrit, Pali and Ardhamagadhi Languages and Literature	22nd September, 1958
(ii)	Persian, Urdu and other Asian Languages and Literature	18th October, 1958
(iii)	Hindi Language and Literature	13th and 14th October, 1958

	<i>Name of the Board</i>	<i>Date of the meeting</i>
(iv)	Gujarati Language and Literature	25th September, 1958
(v)	Marathi Language and Literature	11th October, 1958
(vi)	English Language and Literature	4th October, 1958
(vii)	Modern and Ancient European Languages and Literature	27th September, 1958
(viii)	Sociology	11th October, 1958
(ix)	History, Archaeology and Ancient Indian Culture	24th November, 1958
(x)	Philosophy	16th October, 1958
(xi)	Linguistics	6th October, 1958
(xii)	Library Science	29th September, 1958
(xiii)	Law	12th October, 1958
(xiv)	Physics and Meteorology	3rd October, 1958
(xv)	Chemistry	16th October, 1958
(xvi)	Botany	18th October, 1958
(xvii)	Zoology	13th October, 1958
(xviii)	Bio-chemistry	16th October, 1958
(xix)	Education	(a) 3rd October, 1958 (b) 7th February, 1959
(xx)	Psychology	(a) 3rd October, 1958 (b) 7th February, 1959
(xxi)	Commerce including Business Organisation, Accountancy and Audit, Banking, Transport and Cotton Industry	20th September, 1958
(xxii)	Anatomy and Physiology	13th September, 1958
(xxiii)	Pharmacology and Pathology	14th September, 1958
(xiv)	Medicine, Surgery, Midwifery	28th September, 1958
(xv)	Technology	25th September, 1958
(xvi)	Engineering	25th September, 1958
(xvii)	Painting, Sculpture and Applied Arts	4th October, 1958
(xviii)	Architecture	13th September, 1958
(xxix)	Music, Dance and Dramatics	22nd November, 1958
(xxx)	Museology	11th October, 1958
(xxxi)	Home Science	20th September, 1958
(xxxii)	Social Work	18th October, 1958
(xxxiii)	Mathematics	4th October, 1958
(xxxiv)	Statistics and Actuarial Science	22nd September, 1958

	<i>Name of the Board</i>	<i>Date of the meeting</i>
(xxxv)	Geology and Geography	22nd November, 1958
(xxxvi)	Economics	11th October, 1958
(xxxvii)	Politics and Administration	18th October, 1958
	Joint meetings	
(i)	Joint meeting of Technology and Engineering	25th September, 1958
(ii)	Joint meeting of the Boards of Studies in Economics, Statistics and Actuarial Science and Mathematics	8th February, 1959 11th January, 1959

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

The joint meeting of the Board of Studies in Museology and the Committee appointed by the Syndicate was held on the 21st December, 1958. The joint meeting considered the proposal of the University Grants Commission regarding the development of the Museology Department and generally accepted the suggestions of the University Grants Commission and recommended that the duration of the Post-graduate Diploma Course in Museology be two years for an efficient study of the course.

CHAPTER VI—OTHER BOARDS AND COMMITTEES

General

Besides the authorities mentioned in the foregoing chapters, there are several other Boards and Committees. The work done by some of these bodies during the year is mentioned below :

1. University Board of Sports

Four meetings of the Board were held during the year. The Inter-University Kho-Kho Tournaments (Men and Women), South Zone and All-India Finals were held at Baroda during the year. The Board (i) appointed ' Selection Committees to select teams to represent the University in the Inter-University tournaments, and (ii) appointed Coaches for Foot-Ball, Kho-Kho, Cricket, Table Tennis, Hockey and Badminton. A new post of Assistant Swimming Trainer was created. Five additional boats were purchased. The membership for Boating and Swimming was thrown open to the members of the Senate and also to the Associate members of the Union. The Cricket, Badminton (Men and Women), Volley Ball, Hu-tu-tu, Wrestling and Table Tennis teams were sent to participate in Inter-University tournaments. The efficiency tests in Swimming of A, B, C grades were prepared and approved. An amount of Rs. 101/- was donated by the University towards the fund for the public reception to honour Shri Chandu Borde who made a mark in the Indian Test Cricket Match played against the West Indies team at Delhi. A Trophy for Inter-Faculty Tennis Tournament offered by Dr. Dayanand P. Patel was accepted with thanks.

2. Students' Welfare Board

The Board met once during the year on the 11th August, 1958. It recommended that a structure shed for the students of the Faculty of Technology and Engineering be constructed in the Faculty premises for lunch arrangements.

3. Publication Board

The Publication Board met once during the year on the 8th August, 1958 and considered twelve items. The Board considered and recommended for the approval of the Syndicate the publication of the following works, by the University :

S. No.	Title	Estimated cost Rs.
(i)	Commentary on परमलघुमंजुषा of Shri Nagesh Bhatt by Shri Kalikaprasad Shukla	3,045
(ii)	आग्रा घराणेंकी चीजें	2,050
(iii)	सीतार शिक्षा	2,740
(iv)	वाक्छट्टा	650
(v)	नाट्यरस	760
(vi)	Research Monographs	2,375

The Board also recommended that (i) Dr. M. R. Majmudar be given a grant of Rs. 2,300 towards the publication of his thesis 'Cultural History of Gujarat (Pre-British Period)', if he publishes the thesis, on condition that he agrees to give free of cost 20 copies thereof to the University, and (ii) 1,000 copies of second edition of धर्मेवर्णन by late Dr. Anandshankar Dhruva, be printed at an estimated cost of Rs. 2,400.

The Board also approved the programme of publications under the Gaekwad Oriental Series.

4. Board of Extra Mural Studies

The Board of Extra Mural Studies met once during the year on the 8th August, 1958. The programme of Extra Mural Activities carried on in the Faculties and the Institutions during the year 1957-58 was reviewed. The Board considered the recommendations received from the Deans of Faculties and the Heads of Institutions for the programme to be carried on during the year 1958-59 and made suitable recommendations regarding Extension Lectures, Tours, Exhibitions, etc. The Board recommended an amount of Rs. 500/- for the organisation of a small exhibition of the Statistical Charts showing the growth of the University to be organised by the Department of Statistics, Faculty of Science.

5. Library Committee

The meeting of the Library Committee was held on the 3rd July, 1958. The Committee recommended standing vendors for the purchase of books and periodicals during the year 1958-59. It allocated the Annual Book Grant of Rs. 20,000 to the various subjects. It also recommended a grant of Rs. 3,000 per annum for a period of three years for the binding of back files of scholarly periodicals. It also recommended that post-graduate students and teachers of all Faculties be allowed the privilege of borrowing books from the Libraries of Faculties other than their

own on production of their readers' tickets endorsed by the University Librarian.

6. Students' Advisory Bureau for Studies in India and Abroad

The Bureau collects and furnishes information regarding the Indian and Foreign Universities and Educational Institutions and advises students on the question of studies in India and Foreign countries.

(i)	Total number of Handbooks, Calendars, etc. on 1-7-1958	2,140
(ii)	Handbooks, Calendars, etc. added during the year	465
(iii)	Old Handbooks, Calendars, etc. transferred to Shrimati Hansa Mehta Library	1,240
(iv)	Number of persons whose applications were forwarded to U.K., U.S.A. and other countries	15
(v)	Written queries replied to during the year	124

During the year, the work of classification of different courses available in the Universities in U.K. and U.S.A. was completed in three phases. The Bureau can now furnish information in respect of eighty four courses.

The Bureau has also prepared a brochure giving information regarding courses available for external students in the Indian Universities.

7. Standing Committee on Equivalence of Examinations

The Standing Committee on Equivalence of Examinations met twice during the year on the 20th April and on the 19th June, 1959. It considered the questions on equivalence of various examinations and cases of eligibility of students referred to it. It recommended to the Syndicate that students who have kept two terms at the Jr. B.A., Jr. B.Sc. and Jr. B.Com. classes in any other Universities in the State of Bombay be considered eligible for admission to the third year of the Three Year Degree courses in the Faculties of Arts, Science and Commerce under certain conditions on reciprocal basis. It also approved the draft Ordinance 167 and recommended that students passing the various examinations of other examining bodies mentioned in the Ordinance with English as one of the subjects be considered eligible for admission to this University.

8. Boards of Visitors

The meetings of the Boards of Visitors for the Faculties of Science, Medicine, Technology and Engineering, Fine Arts and Home Science and the College of Indian Music, Dance and Dramatics were held during the year. The reports of these meetings were submitted to the Syndicate.

Some of the important recommendations made by these Boards are as under :

(a) The Faculty of Science: The Board met on the 17th February, 1959 and recommended that (i) Genetics and Plant Breeding be offered as a special subject at the M.Sc. and a Diploma course in Horticulture be introduced; the University Grants Commission be approached for the necessary grants for laboratory for Genetics and Plant Breeding, a Controlled Plant House and the necessary staff; and an area of about 10 acres be allotted in the campus for the Field Work, (ii) M.Sc. courses in Physical Chemistry be started and the University Grants Commission be approached for one post of a Reader in Physical Chemistry and equipment to the extent of Rs. 10,000, (iii) Cartography be introduced at the M.A. and M.Sc. courses in Geography (3 papers) and the University Grants Commission be approached to sanction one post of a Lecturer and one post of a Draftsman, (iv) the optional special papers VII and VIII for M.Sc. viz. (a) Topology and Functional Analysis, (b) Fourier Transforms, and (c) Theory of Numbers, be introduced from 1959-60, (v) the University Grants Commission be approached to sanction posts of (a) Professor or Reader in Theoretical Physics, and (b) Lecturer in Nucleus Physics, (vi) the University Grants Commission be approached to sanction a post of Professor or Reader in Applied Statistics and (vii) the number of students to be admitted in the Preparatory Science class should not exceed 480.

(b) The Faculty of Medicine: The Board met on the 9th August, 1958 and recommended that (i) a new building for old Medical and Surgical cases to be located near the out-patient building be constructed, (ii) a new E.N.T. Ward with 16 beds be constructed, (iii) the existing Surgical Theatres be re-built and air-conditioned, (iv) a new floor over the old out-patient building be constructed to provide accommodation for full-time Professors of Medicine, Surgery and Obstetrics, etc., (v) a separate air-conditioned laboratory for housing the electronic apparatus be constructed, (vi) the Animal House over the college building, for which plans and estimates costing Rs. 33,700 have been already submitted to the Government be constructed earlier, (vii) full-time Professors of Medicine, Surgery and Obstetrics be appointed, (viii) a vacant post of a Lecturer in Physiology Department be filled up immediately, (ix) one additional Lecturer in each of the five departments of Anatomy, Physiology, Pharmacology, Pathology and Preventive and Social Medicine be appointed,

{ x } vacant posts of two Junior Lecturers in Physiology be filled up, (xi) an Assistant Professor of Medicine, an Assistant Professor of Surgery and an Assistant Professor of Obstetrics and Gynaecology be appointed for post-graduate teaching work, (xii) a Lecturer, Medical Social Worker, Technician and Bio-Statistician be appointed in the Preventive and Social Medicine Department, (xiii) an Assistant Surgeon each for E.N.T. and Orthopaedic Departments be appointed, (xiv) a Clinical Pathologist, Resident Pathologist, Laboratory Assistant and a Class IV servant be appointed for the Blood Bank, (xv) a Clinical Psychologist be appointed, (xvi) an additional Honorary Assistant Surgeon, an additional Honorary Physician, an additional Honorary Radiologist and an Assistant Anaesthetist and several other posts of Registrars, Physiotherapists, Sisters, Staff Nurses, Medical Social Workers, Clerks and Compounders be appointed. The Board also recommended (i) provision of a P.B.X. Telephone System, (ii) adequate staff for the R.M.O.'s quarters and departmental running of the R.M.O.'s mess, (iii) increase in the grant for the X-ray films, (iv) allocation of accommodation in the Internees hostel to the failed M.B., B.S. students, (v) provision of more paying beds, (vi) expediting water supply for the Infectious Diseases Hospital and the provision for the necessary equipment to enable its functioning as early as possible, (vii) provision of staff in the Mental Hospital viz. raising the post of the Superintendent to Class I, additional post of a Deputy Superintendent and other nursing, clerical and Class IV staff, (viii) development of a Thoracic Unit at the S. P. Sanatorium for Tuberculosis and appointment of a Deputy Superintendent, qualified Anaesthetist, two House Surgeons and other staff.

(c) The Faculty of Technology and Engineering: The Board met on the 13th February, 1959 and recommended that (i) the courses in Applied Geology be referred to the University Grants Commission and the scheme be included in the Third Five Year Plan, (ii) additional posts of a Mistry in the Textile Chemistry Department and Jobber in the Textile Engineering Department be created.

(d) The Faculty of Fine Arts: The Board met on the 16th February, 1959 and recommended that (i) the maximum number of admissions in the second year classes (both degree and diploma) be (a) Painting 10, (b) Applied Arts 15, (c) Sculpture 10, (ii) additional accommodation for the Painting Department be provided by allotting the present premises occupied by the Applied Arts Department, and the

Applied Arts Department be housed in a new floor to be constructed on the present Exhibition Studio, (iii) the Government of India and the University Grants Commission be requested for financial assistance in the matter of building, equipment and staff for the training of Government of India Scholars in the departments of Painting and Sculpture, (iv) the post of a Tutor in Stone Carving be converted to that of a Lecturer, (v) two new posts—one of a Technician and a Studio Attendant be created.

(e) The Faculty of Home Science: The Board met on the 9th February, 1959 and recommended that (i) vacant posts of Professor and Reader in Foods and Nutrition, Reader in Home Science Education and Lecturer in Home Management be filled up, (ii) the scheme of the training of Pre-primary teachers (Diploma in Nursery School Education) be approved and new posts of a Lecturer, a Tutor and a Demonstrator be created; also an additional accommodation consisting of one class room 25' x 18', one play room 25' x 45' and toilet 25' x 15' be provided; an amount of Rs. 2,000 for furniture and equipment (non-recurring) and Rs. 1,000 (recurring) be sanctioned.

(f) The College of Indian Music, Dance and Dramatics: The Board met on the 15th February, 1959 and recommended that (i) the post of a Lecturer or Tutor in Violin be advertised, (ii) Dr. D. G. Vyas be requested to help in Research Project on The Influence of Moghul Period on Indian Music; (iii) a Sub-Committee be appointed to review the teaching and instruction in post-graduate courses, the number of students that can be admitted to these courses and to advise if it was necessary to have courses for M.Mus. in instrumental music in each of the instruments like Sitar, Violin, Tabla, Dilruba, etc., keeping in view the existing facilities available in the matter of staff, equipment and accommodation.

9. Committee to select Wardens

During the year 1958-59 three meetings of the Standing Committee to select Wardens of Halls of Residence were held and two of them were by way of circulation. The following persons were continued as Wardens of Halls of Residence mentioned against their names for a period upto the 31st May, 1960 and Professor C.M. Shukla was appointed Chief Warden and Convener, Wardens' Committee for a period upto the 31st May, 1960.

Name	Hall of Residence
1. Professor C. M. Shukla	Shri K. M. Munshi Hall and Shri Dadabhai Naoroji Hall
2. Shri H. C. Dholakia	Shri Manubhai Mehta Hall
3. Shri L. J. Bhatt	Maharshi Arvind Hall
4. Shri K. S. Yajnik	Shri T. K. Gajjar Hall
5. Shri C. M. Patel	Hall of Residence for Engineering students (Keshav Prasad)

As Dr. O. D. Gulati, Warden of Dr. Jivraj Mehta Hall was to proceed to U.S.A. under the T.C.M Programme, Dr. B. N. Mazumdar was appointed Warden of that Hall for a period of three years vice Dr. O. D. Gulati but as he was transferred to Aurangabad, Dr. R. N. Shukla was appointed Warden for a period of three years vice Dr. B. N. Mazumdar.

10. Wardens' Committee

The Committee met twice during the year on the 18th December, 1958 and the 15th April, 1959. The Committee recommended that a full-time post of a Wireman for the Halls of Residence be created. It also approved the allocation of seats in the Halls of Residence to the different Faculties and the Institutions for the year 1959-60 and recommended to raise hostel fees from Rs. 60/- to Rs. 80/- per term from the academic year 1959-60.

11. Advisory Committee for the Halls of Residence

The Advisory Committee met twice during the year on the 27th July, 1958 and the 8th February, 1959. The Committee recommended that (i) Small Water Coolers be installed in the Halls of Residence one on each floor, (ii) approach roads in front of the Halls of Residence be made of concrete or stone paved, (iii) S. T. authorities be approached for transport facilities for the Halls, (iv) the present canteen be extended by a carpet area of about 400 sq. ft., (v) a public telephone be installed in Maharshi Arvind Hall and if the collection @ 15 nP. per call did not fetch the required annual telephone charges of Rs. 360/- per annum, the deficit be met from the General Fund of the Halls of Residence.

12. Finance and Establishment Standing Committee

The Committee held ten meetings during the year and considered several items concerning requests for additional establishment, grants, purchase of equipments, approval of plans, estimates and tenders for construc-

tion of works, contracts for stitching of uniforms for Class IV servants and requests from staff members regarding study leave, leave without pay for studies abroad and extension of re-employment periods of employees. The recommendations of the Committee were placed before the Syndicate generally on the same day.

The Committee met as Budget Committee on the 20th February, 1959. It submitted to the Syndicate the revised budget estimates for the year 1958-59 and the estimates for the year 1959-60, both for the revenue and the capital accounts after scrutinising the various proposals received from the Faculties, Institutions and Offices of the University and also the proposals referred to it by the Board of Visitors of different Faculties and Institutions after discussing the same with the Dean or the Head concerned.

13. Investment Committee

The Committee held eight meetings during the year. The recommendations concerning University funds were made by the Committee and submitted to the Syndicate.

14. Selection Committees

During the year, 76 meetings of the Selection Committees for junior posts were held. They recommended 126 candidates for appointment to various posts. 20 meetings of the Selection Committees appointed under Section 48(2) of the Act were also held during the year. They recommended 22 candidates for appointment to the posts of Reader and/or Professors.

15. Shri Sayaji Sahityamala Publications Committee

The Committee met once during the year on the 17th July, 1958, and considered two items by circulation. It recommended the following five publications :

- (1) Under Shri Sayaji Sahityamala :
 - (1) गुजराती भाषाशास्त्र भाग १-२ by Shri K. K. Shastri
 - (2) अंबिकातुं आर्षदर्शन by Shri K. B. Dave
- (2) Under Shri Sayaji Gramvikasamala :
 - गुजरातनी जमीनो अने तेनुं संरक्षण by Shri K. C. Patwa
- (3) Under Shri Sayaji Balajnanamala :
 - (1) टोमस आल्वा एडीसन by Shri G. N. Mehta
 - (2) कै. राजरत्न प्रो. माणिकराव यांच्या जीवनचरित्रातील कांहीं प्रसंग

16. Building Planning Committee and the University Building Committee :

A Joint meeting of the Building Planning Committee and the University Building Committee was held on the 17th January, 1959. It recommended that the programme of new constructions be taken up and also recommended that ordinary and special repairs to the buildings of the University during the next year be carried out.

17. Press Supervisory Committee

The Press Supervisory Committee held eleven meetings during the year. It considered the monthly reports of the Manager and Statements of work done in the Press and recommended purchase of paper, stationery, etc. The Committee also recommended an amount of Rs. 4,000 as loan for the purchase of bicycles for the Press Workers. The interest for this was to be charged to the Amenities Grant of the workers and the amount was to be recovered from the workers in twelve equal instalments. The University Stationery Unit was started under the Manager, M.S. University Press. A Sub-Committee was appointed to consider all the proposals and recommendations on the scheme of Diploma course in Graphic Production.

18. N.C.C. Senior Division Advisory Committee

The Committee met once during the year on the 11th August, 1958. It considered brief reports of the working of the different N.C.C. Units in the University. It recommended that (i) the Circle Commander, No. 1, Circle N.C.C., Bombay, be requested to authorise the Officer Commanding, 5th Bombay Girls' Troop N.C.C. to select girl cadets and to provide more funds for the training material; (ii) the students of the Pre-Medical Class of the Faculty of Science be allowed to be enrolled in the 20th Bombay Medical Coy, N.C.C., and (iii) the dhobi allowance for the units be raised from Rs. 8 to Rs. 11 per person.

19. Baroda Sanskrit Mahavidyalaya Committee

The Committee met once during the year on the 29th September, 1958. It recommended the revision of the salary scales of the Principal, Uttam Kaksha, Madhyam Kaksha and the Pratham Kaksha teachers. The Syndicate, however, appointed a Committee to consider the matters regarding Sanskrit Mahavidyalaya and the teaching of Sanskrit in the Oriental Institute and the Faculty of Arts.

20. Sheth Ujamshi Pitamberdas Ayurvedic Research Unit Committee

The Committee met on the 16th February, 1958 and the report of the Committee was considered by the Syndicate at their meeting held in the month of August, 1958. An out-patient research department was inaugurated by Shri M. S. Kannamwar, Minister for Health, Bombay State. The Committee considered and reviewed the research work done in the Unit during the year.

21. Deans' Committee

The meetings of the Deans of Faculties and the Heads of Institutions were held during the year on the 24th July, 8th September, 2nd December, 1958 and the 12th January, 1959. At these meetings various administrative problems were considered and necessary recommendations were made to the Syndicate. The Committee recommended a programme of lectures on Personal Hygiene to the students in various Faculties. The lectures were to be delivered in consultation with the Dean, Faculty of Medicine and Professor of Physiology. It appointed a Committee to consider the question of simplification of the procedure for the Board of Visitors. A Sub-Committee was appointed to prepare a scheme of teaching Hindi to the members of the staff of the University. The University week was redesignated as 'University Youth Festival' and it was decided that the participants for the next Inter-University Youth Festival be selected from the University Youth Festival. A Committee was appointed to consider and prepare a scheme for the safe custody of bicycles in the University. It recommended a new procedure for the hostel admissions from the year 1959-60.

22. Committee for the Preparatory Courses in Arts, Science and Commerce

With the introduction of the three year integrated degree courses in the Faculties of Arts, Science and Commerce, it was necessary to make arrangements for the framing of the syllabus and for other matters relating to the Preparatory Courses in Arts, Science and Commerce. The Syndicate, therefore, appointed the Committee for the Preparatory Courses in Arts, Science and Commerce. The Committee met on the 13th August, 8th September, and 9th October, 1958 and 7th February, and 13th March, 1959 during the year. The Committee made various recommendations regarding the teaching of various courses. The following are some of the important recommendations which are approved :

(1) Every student of the Preparatory Class be supplied with synopsis of courses and a list of books recommended for study.

(2) The periods per week per subject be reduced from 3 to 2 and instructions be arranged in smaller divisions of approximately 80 students.

(3) Senior teachers of the departments be requested to take some lectures in the Preparatory Classes.

(4) Sub-Committees consisting of the Dean of the Faculty, Head of the Department concerned and the Principal, Preparatory Classes Unit be formed for different subjects. These Committees will perform functions like framing courses of studies, recommending text-books and preparing panels of examiners.

(5) The admission requirements of the Preparatory Courses be modified and that the students who have passed the Secondary School Certificate Examination of the Secondary School Certificate Examination Board of the Bombay State with English as one of the subjects or an examination equivalent to it with English as one of the subjects be considered eligible for admission to the Preparatory Courses.

23. Advisory Committee to advise on the organisation and set-up of the General Education Centre

Consequent upon the receipt of a grant of 4,30,000 dollars from the Ford Foundation for setting up a General Education Centre in the University, the Syndicate appointed an Advisory Committee to advise on the organisation and set-up of the General Education Centre in the University under the Chairmanship of Shrimati Hansa Mehta. The Committee met twice during the year, on the 13th December, 1958 and the 20th March, 1959. Some of the important recommendations made by the Committee and which are approved are as under :

(1) The General Education course be allotted four periods per week in the first two years of the B.A., B.Sc., B.Com., B.Sc. (Home), B.A. (Fine), B.Mus., Pre-Medical and F.E. (New) courses.

(2) Cafeteria in the new proposed building of the General Education Centre be planned to accommodate 140 students and the Library and the Reading Room be planned to accommodate 150 students.

(3) A bridge 6 feet broad be constructed over the Nala between the Cricket Ground and the Faculty of Education and Psychology and that the Hobby Workshop be constructed near the Centre on a site to be selected by the Vice-Chancellor.

CHAPTER VII—RESEARCH WORK IN THE UNIVERSITY

1. Some of the research work done by the members of the staff of the University is being published in the Journal of the University. The Journal entered into the 7th year of its publication. Professor C. M. Shukla continued to be its Editor. The following members continued to be on the Advisory Board of the Journal.

Professor N. M. Bhatt, Professor B. J. Sandesara, Professor N. S. Bendre, Professor S. M. Sethna, Professor S. M. Sen, Professor B. Subbarao and Dr. A. H. Somjee.

2. During the year, Post-graduate and research work was done in almost all Faculties and Institutions under the University. 117 students registered for Ph.D. and 12 students registered for M.Ed. degree by research during the previous years continued their research. Details about fresh students registered during the year for these degrees are given in the statement below :

Sr. No.	Name	Date of registration	Name of the guiding teacher	Subject	Title of the Thesis
1	2	3	4	5	6
Ph.D.					
Faculty of Arts (11)					
1	Desai, Shantilal Keshavlal	10-7-1958	Professor G. B. Pandya	History	Baroda State under Maharaja Khanderao (A.D. 1856 to A.D. 1870)
2	Shrimati Bhimnathwala, Sharmishtha Amritlal	18-7-1958	Professor V. Y. Kolhatkar	Economics	Post-War Monetary and Banking trends in India
3	Mahendra, Pratapsingh Harpalsingh	13-9-1958	Shri Chandraprakash Singh	Hindi	Bhagvanta Rai Khichi aur Unke Mandal Ke Kavi
4	V. Gopalan Kutty *	13-8-1957	Professor C. M. Shukla	English	Sean 6' case as a dramatist—A Critical Study
5	Sheth, Tarun Natvarlal	8-10-1958	Professor I. P. Desai	Sociology	The English educated and the Society with special reference to

* Retrospective effect is given.

1	2	3	4	5	6
					Gujarati Society early 19th century to early 20th century
6	Dabhade, Madhav Govind	4-10-1958	Dr. V. P. Dandekar	Marathi	A Critical Survey of Autobiographies in Modern Marathi Literature
7	Shukla, Angiras Keshavlal	31-10-1958	Shri H. C. Malkani	Economics	A Dynamic Model for development planning (with special reference to India)
8	Bapat, Bhagwan Gajanan	19-1-1959	Professor I. S. Gulati	Economics	Taxation in a developing Economy with special reference to India
9	Patanjal, Deoprakash B. Mahendraprasad	11-2-1959	Dr. S. S. Bhawe	Sanskrit	A Critical Study of Rgveda 1-137-163 (Particularly from the point of view of Paninian grammar)
10	Dave, Subhash-chandra Manilal	23-3-1959	Professor B. J. Sandesara	Gujarati	The poet Dayarama (18th Century A.D.)—A Critical Study
11	Yajnik, Jayendrakumar Anandji	16-4-1959	Dr. A. G. Javadekar	Philosophy	Suraminarayan Sect.—A Comprehensive Study
Faculty of Science (18)					
12	Patel, Melabhai Gulabbhai	10-7-1958	Professor S. M. Sethna	Organic Chemistry	Studies on Isocoumarins
13	Shah, Manubhai Vrajlal	10-7-1958	Professor S. M. Sethna	Organic Chemistry	Studies on Chromones
14	Shah, Chandrakant Jeysinghbhai	10-7-1958	Dr. N. S. Pandya	Physics	Optical Studies and Hardness Measurements of Metal Crystals
15	Deshmukh, Yeshvantrao Shankerrao	19-7-1958	Professor A. R. Chavan	Botany	Organogeny and Cyto-embryological studies in some of the Bicornellatae

1	2	3	4	5	6
16	Trivedi, Pradyumna Nandan Balmukundji	12-1-1959	Professor A. R. Chavan	Botany	Autecological Studies of some common Weeds
17	Patwa, Pravin-chandra Kantilal	24-7-1958	Dr. C. M. Mehta	Organic Chemistry	Interaction of (1) arsanitic acid and (2) stibanic acid resp. with the bromoderivatives of the substituted acids of cyanoacetic acid
18	Patel, Gordhanbhai Hirubhai	29-11-1958	Dr. C. M. Mehta	Organic Chemistry	Formation of aniline derivatives on cyclisation of substituted articles of cyanometizer using potyphosphoric acid
19	Patel, Ambalal Raijibhai	29-7-1958	Dr. J. S. Dave	Chemistry	Studies in Chelete Compounds
20	Patel, Nutankumar Thakorlal	19-11-1958	Professor C. V. Ramkrishnan	Bio-chemistry	Biosynthesis of organic acids in Tamarind
21	Raina, Premnath Mahishwar-nath	21-11-1958	Professor C. V. Ramkrishnan	Bio-chemistry	Studies on normal and malignant cells in tissue culture
22	Deodhar, Arvind Dattatraya	8-12-1958	Professor C. V. Ramkrishnan	Bio-chemistry	Studies on Human Lactation with special reference to Vitamins
23	Karmarkar, Madhukar Ganesh	8-12-1958	Professor C. V. Ramkrishnan	Bio-chemistry	Studies on Human Lactation with special reference to proximate principles
24	Deshpande, Vijay Moreshwar*	9-8-1957	Professor C. V. Ramkrishnan	Bio-chemistry	Studies on the Biosynthesis of organic acids in Garcenia
25	Pullolickal, Iype Thomas	3-12-1958	Professor J. C. George	Zoology	Studies in Muscle Physiology
26	Talesara, Chunarilal Laxmichandji	3-12-1958	Professor J. C. George	Zoology	Studies in Physiology of the Muscle Tissue
27	Bhakthan, N. M. Govardhana	5-2-1959	Professor J. C. George	Zoology	On certain aspects of the Physiology of insects muscle

* Retrospective effect is given

1	2	3	4	5	6
28	Yadav, Bhurisingh Hemsingh	26-11-1958	Professor U. N. Singh	Mathematics	Convergence and summability problems of Trigonometrical series
29	Savithri, Sathyanarayan Murthy Kappagantula	14-8-1958	Professor U. N. Singh	Mathematics	Quadratic form on Rational Function Fields in one variable over a finite field
Faculty of Education and Psychology (4)					
30	Kaul, Brij Lal	18-9-1958	Professor T. K. N. Menon	Education	The construction and standardization of a group test of intelligence
31	Shrimati Warty, Manjula Shridhar	22-6-1959	Professor T. K. N. Menon and Dr. (Miss) P. Pasricha	Psychology	The development of the concept of causal relations in children
32	Trivedi, Amritlal Keshavji	5-8-1958	Professor S. N. Mukerji	Education	A critical enquiry into the secondary school inspection system in India
33	Patel, Raojibhai Purushottamdas	28-10-1958	Dr. A. S. Patel	Education	A critical study of social, cultural and intellectual interests of High School children in Gujarat

M.Ed. By Thesis (4)

1	Mody, Jagmohandas Jagjivandas	11-9-1958	Dr. M. S. Patel	Education	A comparative study of English and Gujarati sound systems
2	Soni, Natverlal Chunilal	27-11-1958	Dr. M. S. Patel	Education	A mistake analysis of the written English Composition of the S.S.C. pupils of the Secondary Schools in Baroda Districts
3	Kothari, Pradyumna Bhogilal	3-9-1958	Shri D. G. Apte	Education	A Survey of the training of primary teachers in the State of Bombay

1	2	3	4	5	6
4	Dave, Ramesh-chandra Himat-lal	27-6-1959	Shri K. S. Yajnik	Education	Importance and use of cumulative records in secondary schools of India

3. The research work done by the members of the staff is given in the statement below:

	Name of the department and teacher	Subject
Faculty of Arts		
1.	<i>History:</i>	
	(a) [Late] Professor G. B. Pandya	Publication of Baroda Residency Records (since Professor Pandya expired from 3-11-1958, the research is being carried on by Dr. S. C. Misra)
	(b) Dr. S. C. Misra	History of Gujarat under the Muslim
2.	<i>Philosophy:</i>	
	(a) Shri D. M. Patel	Dynamic Philosophy of Shri Aurobindo
	(b) Dr. A. G. Javadekar	Valuational Theory of Knowledge
	(c) Shri G. G. Parmar	Contribution of Vivarana School to Shanker Vedanta
3.	<i>Sociology:</i>	
	(a) Professor M. N. Srinivas	(i) A study of urbanization and industrialization in South Gujarat (ii) Barot Village Project Mahuva Project
	(b) Professor I. P. Desai	
4.	<i>Politics:</i>	
	(a) Dr. A. H. Somjee	(i) Voting behaviour in an Indian village (ii) The project on political analysis (iii) Leadership in an Indian village to the Research Council

	Name of the department and teacher	Subject
	(b) Shri K. S. Desai	Problems of administration in two Indian villages
	(c) Shri C. N. Bhalerao	Public Service Commission of India
5.	<i>Sanskrit:</i>	
	(a) Dr. S. S. Bhawe	Translating and interpreting Rg-veda Mandal IX
	(b) Shri S. G. Kantawala	Cultural History from the Matsya-Purana
6.	<i>Gujarati:</i>	
	(a) Professor B. J. Sandesara	(i) Publication of a series of critical editions of old Gujarati texts (ii) Publication of the literary material of the late Professor B. K. Thakore
7.	<i>Archaeology:</i>	
	(a) Professor B. Subbarao	Engaged in the main field work of the department—Pre-historic and Proto-historic exploration
	(b) Dr. R. N. Mehta	Joint work on Varnak Samucchaya
	(c) Shri S. C. Malik	Continued his exploration on Bombay and Satara
	(d) Shri S. N. Chaudhary	Continued his exploration on North Gujarat
8.	<i>Hindi:</i>	
	Shri B. L. Sinha	Padmakar aur unki Kavita
9.	<i>Economics:</i>	
	(a) Professor I. S. Gulati	(i) Consumer's Finance in Baroda (ii) Village Survey Scheme
	(b) Shri H. C. Malkani	Socio-Economic Survey of Baroda
Faculty of Science		
1.	<i>Bio-chemistry:</i>	
	(a) Professor C. V. Ramkrishnan	(i) C ₄ —Metabolism in A. Niger (ii) Tissue Culture (iii) Human Lactation (iv) Food Yeast

	<i>Name of the department and teacher</i>	<i>Subject</i>
	(b) Dr. V. V. Modi	Bio-synthesis of carotenoids in molds and plants
2.	<i>Botany:</i>	
	(a) Professor A. R. Chavan	(i) Sedges of Gujarat (ii) Morphogenesis in Cucurbitaceae and Passifloraceae
	(b) Dr. V. G. Phatak	Flora of Gujarat
3.	<i>Chemistry:</i>	
	(a) Professor S. M. Sethna	(i) Chromones (ii) Iso-Coumarins (iii) 5-Penta—docyl-resorcinol
	(b) Dr. C. M. Mehta	Partial Hydrolysis of Substituted Amides of Cynacetic Acid
	(c) Dr. J. S. Dave	(i) Mixed Liquid Crystals (ii) Chelate Compounds
4.	<i>Mathematics:</i>	
	(a) Professor U. N. Singh	Harmonic Analysis
	(b) Dr. V. V. Rao	Analytic Theory of Numbers
5.	<i>Physics:</i>	
	(a) Professor D. V. Gogate	(i) Heat-transfer by convection (ii) Problems in Theoretical Physics
	(b) Dr. N. S. Pandya	(i) Optical Studies of Etched Surfaces of Metal and Alloy Crystals (ii) Study of Growth and Etch Phenomenon in Crystals
6.	<i>Statistics:</i>	
	(a) Professor N. M. Bhatt	(i) Analysis of Preparatory Examination Results (ii) Certain Problems in Mathematical Statistics
	(b) Shrimati I. V. Bhanot	(i) Medical Inspection Reports (ii) Vital Statistics: Baroda (iii) Performance of students
	(c) Shri C. G. Khatri	Problems in Matrix Algebra and Distributions

	<i>Name of the department and teacher</i>	<i>Subject</i>
7.	<i>Zoology:</i>	
	(a) Professor J. C. George	(i) Development Physiology (ii) Structure and Physiology of muscle and adipose tissue (iii) Reptilian Anatomy and Physiology
	(b) Dr. R. V. Shah	(i) Reptilian Anatomy and Physiology (ii) Vertebrate Embryology
8.	<i>Geography:</i>	
	Shrimati V. A. Janaki	Historical Geography of Settlements in Kerala
Faculty of Education and Psychology		
1.	<i>Educational Administration:</i>	
	(a) Professor S. N. Mukerji	Educational Adaptability
	(b) Shri D. B. Desai	Intelligence Test "Progressive Matrices Test applied to a Group of Secondary School-going Children in Gujarat
2.	<i>Education:</i>	
	(a) Professor T. K. N. Menon	(i) Psychological Factors of Adolescent Adjustment and Maladjustment (ii) Evaluation of Multipurpose Schools in Bombay State
	(b) Dr. M. S. Patel	(i) Phonetic Analysis of Gujarati (ii) A Linguistic Approach to Grammar
	(c) Shri M. B. Buch	(i) A study of attitudes of Secondary School teachers towards their profession (ii) Construction and Standardization of Achievement Tests for Class X (iii) Construction of a Test of Social Intelligence

Name of the department
and teacher

Subject

3. *Psychology:*

(a) Shri L. J. Bhatt

(b) Dr. A. S. Patel

- (iv) A Test of Reasoning Ability
(v) A study of the comparative Achievements of Secondary School pupils

Psychological aspects of Social Mobility

(i) Attitudes of College students towards some socio-cultural, political and educational issues - a study of differences in their preferences

(ii) An Experimental Study of Prestige Influence on changing opinions of University students

(iii) A study of Stereotypes and racial as well as communal prejudices of University.

(iv) A new approach to analysis of some jobs

(c) Dr. (Mrs.) P. Phatak

Application of Phatak's Draw-a-man Scale to Gujarat "Study of Revised (Harris) Good Enough Draw-a-man scale for discriminating artistic and non-artistic drawings

Faculty of Medicine

1. *Physiology:*

(a) Professor J. D. Pathak and Dr. B. N. Majmudar

(b) Professor J. D. Pathak and Dr. (Kumari) M. R. Varde

(c) Professor J. D. Pathak

Mascular Efficiency as related to food

Seasonal Variations in the Testis of Rana Tigrina

(i) Effect of Ions of Human Pylorus

(ii) Execution of Sulphur in Indians

(iii) Skin Temperature Studies after certain drugs

Name of the department
and teacher

Subject

(d) Dr. B. P. Chakravorti

(i) Electrophoretic and Biochemical studies on body fluids in Health and Diseases

(ii) A study "Free Amino Acids" in various biological materials

2. *Anatomy:*

(a) Professor H. N. Dass, Dr. (Kumari) M. R. Varde and Dr. P. S. Gupte

Effects of adrenalectomy on anterior lobe of pituitary

(b) Dr. P. S. Gupte

Effects of some environmental factors in causation of developmental anomalies

3. *Pharmacology:*

(a) Professor G. K. Karandikar

*(i) Enquiry into the influence of anti-rheumatic substances on Hypophyso-adreno-cortical axis

†(ii) Enquiry to study the Diuretic and anti-Diuretic Ayurvedic remedies

‡(iii) Iodine Study

†(iv) Coagulants and anti-coagulants

†(v) Anthelmintics

††(vi) Pharmacology of Indigenous drugs

‡(vii) Pharmacology

Studies in Nilkanthi

(b) Dr. S. D. Gokhle

4. *Pathology:*

(a) Professor B. A. Sayed, Dr. P. T. Acharya and Dr. S. P. Amin

Concentration methods for detection of cysts and ova in faeces

(b) Shri B. N. Shukla

(i) Studies in Serum Diastase in healthy Gujaratis

(ii) Total cholesterol and its ester in Gujaratis

* Financed by Indian Council of Medical Research

† Financed by Council of Scientific and Industrial Research

‡ Financed by Sheth Ujamshi Pitamberdas Ayurvedic Research Unit, M. S. University of Baroda, Baroda.

<i>Name of the department and teacher</i>	<i>Subject</i>
	(iii) Blood Groups and Rh in Gujaratis
(c) Dr. N. B. Parikh	Tumours of the breast
(d) Professor B. A. Sayed	Anti-biotic Resistance of Staphylococci
5. <i>Preventive and Social Medicine :</i> Professor A. K. Niyogi and Dr. S. R. Trivedi	Epidemiology of Syphilis
6. <i>Skin and V. D. :</i> Dr. B. S. Verma	(i) Fungus diseases (ii) Penicilin sensitivity in Indians
7. <i>Medicine :</i> (a) Dr. K. M. Gandhi (b) Dr. R. D. Desai (c) Dr. Y. B. Dixit (d) Dr. M. S. Erram	Infective Hepatitis Ankylostomiasis Rheumatoid Arthritis & Chloroquin Hyperacidity and Antrenyl Plain
8. <i>Surgery :</i> (a) Dr. S. M. Patel (b) Dr. J. D. Jadhav (c) Dr. R. F. Patel	Inguinal Hernia Spinal Menometry Fistula in Ano and primary Skin Grafting
College of Indian Music, Dance and Dramatics	
1. <i>Music :</i> Professor R. C. Mehta	Agra Gharana Tradition and Chijas
2. <i>Drama :</i> Professor C. C. Mehta	Bibliography of Drama
Sanskrit Mahavidyalaya	
(a) Shri H. C. Mehta	(i) Kavya Mimansa of Rajshekhar with translation, introduction and critical notes in Gujarati
(b) Shri L. J. Zha	(ii) Critical Study of 'Jagannath' Jyotish Tatva—Ancient Work on Astrology with a commentary in Sanskrit
(c) Shri S. V. Bhattbhatt	Arthasangraha or Laugakshi Bhas- kar with commentary and introduc- tion

CHAPTER VIII—FACULTY OF ARTS

1. Brief History

The Baroda College which was founded in 1881, was the oldest institutions transferred to the University. It was affiliated to the University of Bombay and offered instruction in Arts and Science subjects. For nearly half a century, it was the only institution imparting University education in the former Baroda State. The institution was taken over by the University on the 30th April, 1949. Its Arts and Science courses were organised into the Faculty of Arts and the Faculty of Science from June, 1950.

2. Building

The Faculty is housed in the east wing and a part of the west wing of the former Baroda College building, the Sociology Block and Archaeology Block. The second floor of the new building of the Social Science Block houses the departments of Politics and Economics since June, 1959.

3. Courses of Studies

There was provision for the following courses during the year :

- (1) Upto Ph.D. : English, Gujarati, Marathi, Hindi, Sanskrit, Sociology, History, Philosophy, Economics, Politics, Psychology, Archaeology and Ancient Indian Culture
- (2) Upto M. A. : Persian, Statistics, Geography and Mathematics
- (3) M. A. (Subsidiary): Pali, Urdu and Linguistics
- (4) Upto B. A. (Princ- Law (from 22nd June, 1959)
pal and Subsidiary):
- (5) B. A. (Subsidiary) : Pali, French, Urdu and Education

The three year degree course was introduced in the Faculty from June, 1957.

4. General Education

The General Education programme for the Faculty of Arts was carried out as usual during the year under report. It forms a compulsory part of the curriculum for the F.Y.B.A. and S.Y.B.A. students who

are required to obtain a satisfactory grade in it in order to pass the final examination of the Faculty. Two periods per week are assigned to every class. There was no annual examination in General Education but there were periodical tests from time to time on topics that were completed.

The total number of students under the General Education programme in the Faculty of Arts during the year under report was 597, F.Y.B.A. 313 divided into 3 divisions, and S.Y.B.A. 284 divided into two divisions. The attendance at the General Education lectures was satisfactory.

5. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1958-59 was as under :

Class	Men	Women	Total
F Y. B.A.	232	111	343
S.Y. B.A.	192	105	297
T.Y. B.A.	143	68	211
Jr. M A.	65	15	80
Sr. M A.	60	11	71
Diploma in Library Science	14	6	20
Ph.D.	8	1	9
	—	—	—
	714	317	1,031

6. Staff

During the year, the staff of the Faculty consisted of 4 Professors, 10 Readers, 37 Lecturers, 19 Tutors, 2 Part-time teachers, 13 Class III and 15 Class IV servants. Teachers of the Faculty also carried out assignments in the following Faculties and Institutions where the Humanities and the Social Sciences are included in their various courses :

(1) Faculty of Science, (2) Faculty of Commerce, (3) Faculty of Technology and Engineering, (4) Faculty of Fine Arts, (5) Faculty of Home Science, (6) Preparatory Classes Unit, (7) College of Indian Music, Dance and Dramatics and (8) The Baroda Museum and Picture Gallery.

7. Library and Reading Room

The Library of the Faculties of Arts and Commerce is now amalgamated with Shrimati Hansa Mehta Library and the students are making use of that Library. Different departments of the Faculty have been

loaned some selected books by this library for the exclusive use of the teachers. The Poor Boys Library organised from the R. B. G. H. Fund continued to be maintained as before and new additions of books were made.

8. Museum

The museum of the Department of Archaeology has a very rich variety of important antiquities from Egypt, Crete and other countries, presented by the Institute of Archaeology, Melbourne. A new diorama of prehistoric man was also completed and added to the museum. Other antiquities of prehistoric and historic periods were collected by the members of the staff of the Archaeology Department in the course of their activities. There is also a section in the Museum containing material collected by the Sociology Department.

The following is the statement of equipment of the department of Archaeology :

Sr. No.	Item	Cost of equipment as on 1-7-1958	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1	Museum	3,209=87	—	—	3,209=87
2	Studio	13,246=96	—	563=00	13,809=96
3	Excavation equipment	1,184=35	—	—	1,184=35
4	Drawing equipment	1,806=75	—	—	1,806=75
5	Deadstock	3,293=46	—	2,585=00	5,878=46
		22,741=39		3,148=00	25,889=39

9. Publications by the members of the staff

The following were the publications of the members of the staff of the Faculty during the year 1958-59 :

(1) *Articles or Papers :*

Name	Title	Name of the Journal wherein published with month of publication
1 Professor B. Subbarao	Regions and Regionalism	Economic Weekly, September, 1958
2 Dr. R. N. Mehta	(a) A Restructured coin from Kamrej	Journal of the Oriental Institute, Vol. VIII, No. 4

Name	Title	Name of the Journal wherein published with month of publication
	(b) An Early Medieval Culture from Kasi-pura Sarar, Dist. Baroda	Journal of the Oriental Institute, Vol. VIII, No. 1
	(c) A Copper Coin from Kamrej	Journal of the Oriental Institute, Vol. III, No. 2
	(d) Karvan Vistarni Pranalikas ane Pura-tatva	Gujarat Research Society, Vol. XXII, October, 1958
3 Dr. I. S. Gulati	(a) A memorandum on Taxation and Administration	Submitted to the Direct Taxes Administration Inquiry Committee
	(b) How to stop the Gold Drain	Economic Journal, January, 1959
	(c) Direct Taxes Policy for the Third Plan	Submitted to the Indian Statistical Institute, New Delhi
	(d) Proposal for Prize Bonds	
	(e) Taxation of cheques	
4 Shri K. R. Unni	Polyandry in Malabar	Sociological Bulletin, March-September, 1958
5 Dr. A. H. Somjee	Oriental Despotism	Quest, October, 1958
6 Shri C. N. Bhalerao	(a) Interview in civil service examination	University Journal, 1958
	(b) Union Public Service Commission and U.S. Public Service Commission	Indian Political Science Journal, 1958
7 Shri B. C. Parekh	Equality, its meaning and Problems	Indian Political Science Journal, 1958
8 Dr. A. G. Javadekar	(a) Limitations and Implications of the doctrine of self validity	M. S. University Journal, March, 1959
	(b) Fundamentals of Axionoetics	Philosophical Quarterly, June, 1959
	(c) मूल्योक्ता संवादित्ता सिद्धांत	दार्शनिक अधिवेशन विशेषांक, January, 1959
	(d) स्वतः प्रामाण्यवाद	दार्शनिक ज्ञानमीमांसा, October 1959

Name	Title	Name of the Journal wherein published with month of publication
	(e) रानडेदर्शन ग्रन्थकी समा-लोचना	दार्शनिक, October, 1959
9 Kumari S. H. Divetia	Bhasha ane Tatvagnan	Manisha
10 Dr. S. C. Misra	Daulat-i-Sher Shahi	Submitted to the 22nd session of the Indian History Congress at Trivendrum
11 Dr. Y. J. Tripathi	Gujarati Sahityaman Gazal: Kantharia, Kalapi ane Sagar	Buddhi Prakash, November, 1958
12 Shri S. H. Joshi	Pralika Ranchanani Prakriya	Manisha, August, 1958
13 Shri N. C. Desai	A series of six articles on the form of Novel and its development in various Indian and European languages	Sahitya-Vatika, Navbharat, Baroda, August, September, 1958
14 Kuvar Chandra Prakash Singh	Ideal of Indian Democracy	Panchjanya, Lucknow, June, 1959
15 Dr. A. N. Jani	(a) जर्मनीमा संस्कृतसु शिक्षण अने संशोधन (b) जर्मनीमा नैन विधाने अभ्यास	Navbharat, October, 1958 Jainyug, January, 1959
16 Shri S. G. Kantawala	The Brahma-Sarasvati episode in the Matsya Purana	Journal of the Oriental Institute, Vol. III, No. 1, September, 1958
(2) Books:		
	Name	Name of the Publisher
1	Dr. B. Subbarao	The personality of India, 2nd Edition M. S. University Press
2	Dr. B. Subbarao jointly with Dr. H. D. Sankalia and Shri S. B. Deo	The Excavation at Maheshwar and Navadati M. S. University Press
3	Dr. A. H. Somjee	Voting Behaviour in an Indian Village M. S. University Press, 1959
4	Shri D. D. Mahulkar	The Groundwork of Modern Logic East and West Bookhouse, Baroda, June, 1959
5	Kuvar Chandra Prakash Singh	(a) मध्यकालीन हिन्दी नाट्य परंपरा और भारतेन्दु—A research Treatise Granth Kutir, Kanpur, August, 1958. (Awarded a prize of Rs. 500 by the Government of U.P.) (b) Kavivar Narotamdas (An original Hindi Drama) Gurjar Bharati Prakashan, Baroda, May, 1959

Name	Title	Name of the Publisher
	(c) A collection of one Act Plays—पांच एकांकी	Ranjit Printers and Publishers, Delhi, December, 1958
6 Dr. R. M. Patel	(a) Mani-Dala Shatabdi Grantha	Gujarat Grantha Karya-laya, Ahmedabad, 1958
	(b) Arvachina Gujarati Sahityasvarupono Vikas	Gujarat Grantha Karya-laya, Ahmedabad, 1958
7 Shri S. H. Joshi	Biji Thodika (A collection of 14 short stories)	Chetan Prakashan Gruha, Baroda, 1958

10. Literary, Cultural and Other Activities

Many members of the staff contributed articles on academic and popular themes and reviews of important books in outstanding Journals, delivered public lectures, gave radio talks and were associated with academic, literary and cultural activities in and outside Baroda. Many members of the staff were deputed to attend the annual conferences and they read their papers there. Three members of the Faculty worked as N.C.C. Officers.

The Faculty students participated in all the items of the Inter-University Youth Festival competition conducted by the University. The Faculty continued to win many first prizes in sports. In the Inter-Faculty cultural competition during the University Week the Faculty won the trophy for Drama, and got prizes in Garba and Group Dance competitions. In the field of elocution during the Inter-Faculty debates the Faculty students won many prizes.

In sports the Faculty reaped a rich harvest of prizes during the Inter-Faculty tournaments. The students of this Faculty have been dominating the University teams. This is evidenced by the fact that the captains of Cricket, Hockey, Badminton and Table-Tennis teams are from this Faculty.

Three players also played for the Baroda Ranji Trophy League. In the Inter-Faculty tournaments the Faculty won the trophy in Cricket and Table-Tennis.

11. Co-curricular Activities

(i) *Planning Forum*: The Faculty of Arts cooperated with the Faculty of Commerce in organising a Planning Forum. The forum held discussions on the First and the Second Five Year Plans.

(ii) *Tours*: The students of the M. A. class in Archaeology and Ancient Indian History went on a study tour to Ellora and Ajanta and Sanchi and the students of the B. A. class in Ancient Indian Culture visited Maheshvar, Navadatoli, Mandu and Dhar. Students of the History Department organized a tour of South India. It visited Ajanta, Ellora, Sanchi, Aurangabad, etc. The Economics Department conducted two tours, one to Kabirwad and the other to Khakharia village in Savli Taluka.

(iii) *Socials*: The activities of the students were brought to a close with the annual social on the 23rd and the annual dinner on the 24th January, 1959 at both of which Dr. J. M. Mehta, the Vice-Chancellor and Shrimati Saralaben Mehta were the Chief Guests.

(iv) *Debates*: A two day seminar under the joint auspices of the British Council and the Faculty of Arts was held on the 20th and the 21st October, 1958 specially for the English Department. Professor Holloway conducted the seminar, on the following topics:

1. Contemporary Trends in English Literature	20-10-1958
2. Modern English Criticism (Public lecture)	20-10-1958
3. Contemporary Trends in English Criticism	21-10-1958

In the Inter-Faculty debating contents, the Faculty sent teams for all the debates. Two students of the Faculty—Shri Vatsal Yajnik and Shri Lavkumar Desai—won prizes.

Shri A. P. Mehta, a Senior B. A. Sanskrit student won the Hansraj Gold Medal in the All India Inter-University Essay Competition arranged by the Sanskrit Parishad.

Shri Vasant Joshi represented the University at Allahabad in a debate for students of non-Hindi areas and he secured the second prize and a special prize meant for undergraduates.

(v) *Exhibition*: An Exhibition was arranged by the department of Archaeology on the occasion of the University Week.

(vi) *Celebrations*: Important National days were observed and lectures were arranged fitting to the occasion.

(vii) The following Societies carried on their usual activities during the year :

- | | |
|-------------------------------|----------------------------|
| (a) English Literary Society | (h) Politics Society |
| (b) Shakespeare Society | (i) Economics Association |
| (c) History Society | (j) Philosophy Association |
| (d) Marathi Literary Society | (k) Hindi Sahitya Samiti |
| (e) Gujarati Literary Society | (l) The Music Circle |
| (f) U.N.O. Society | (m) The Speaker's Club |
| (g) Sanskrit Association | |

The Shakespeare Society staged 'Julius Caesar' and 'Arms and the Man' for their annual performances. Each of these societies carried out its own programme of symposia and seminars where papers were read by the students and the discussions were held where both the students and the teachers participated. A competition in (1) Story-writing and (2) Essay-writing was arranged by the department of Gujarati.

12. Tutorial and Class Work

The Tutorial system which was in practice so far has been revised. Its features were as follows :

Four tutorials (tests) per paper were set in a year at regular intervals. They were examined by the teachers themselves, and by the Tutors where the numbers were large as in the Preparatory and the former Intermediate classes. In the latter case, the teacher concerned examined 10% of the scripts. The tutorial work was discussed by the teachers with individual students in smaller classes and with groups of students in large ones. In some departments, seminars were held on particular problems followed by discussions and explanations, whereas in some other departments special tutorial classes were held for individual discussion of the subject taught and for attending to individual difficulties. Beginning from the examinations for 1959, the marks for tutorial had been raised from 20% to 30%. The Faculty of Arts had appointed a committee to reconsider the working of the tutorial system in the light of this rise in marks. The report of the committee was considered by the Faculty and now the old tutorial system has been considerably modified. The new system envisages greater emphasis on class-work and discussion. The student's work is to be evaluated in two mid-term tests and one Terminal Examination during the year. The Faculty has left it to the different departments to organise a viva during the year whenever necessary.

13. Important Events

(1) Distinguished Visitors :

Many distinguished visitors came to the Faculty during the year, gave lectures and held discussions with teachers and students. Prominent amongst them were

- (i) Dr. M. F. Nimkoff, Professor of Sociology and Chairman of the Department, Florida State University
- (ii) Dr. F. H. Young, a Visiting Full-bright Professor of Philosophy, U.S.A.
- (iii) Dr. Sterling P. Lamprecht, Full-bright Professor from U.S.A.
- (iv) Sir Mortimer Wheeler, Secretary, British Council and former Director General of Archaeology in India.

(2) Dr. C. D. Deshmukh, Chairman, University Grants Commission, Shri Hitendra Desai, Education Minister, Bombay State and Dr. S. Bhattacharya, Education Officer of the University Grants Commission visited the Faculty during the year.

(3) Grants :

The University Grants Commission approved grants for developments of some departments as under :

	Rs.
(i) Building, equipment, books, etc. of the department of Archaeology	3,50,000 (N.R.)
(ii) Staff and maintenance of the department of Archaeology	75,000 (R.)
(iii) Building, books and equipment of the department of Sociology	1,70,000 (N.R.)
(iv) Books for the department of English	10,000 (N.R.)
(v) Books, manuscripts and field work of the department of Hindi	20,000 (N.R.)

In addition to the above, the University Grants Commission have also sanctioned posts of Professors, Lecturers and Research Assistants in the departments of English, Hindi and Sociology. They have also approved grants for recurring and non-recurring expenditure for the research project 'Socio Historical Survey of the Muslim Population of Gujarat' under the direction of Dr. S. C. Misra. Under this project a socio-historical analysis of the different Muslim Communities residing in the Gujarati speaking region of the Bombay State will be made.

CHAPTER IX—FACULTY OF SCIENCE

1. Brief History

The Faculty of Science is an institution of long standing, though it assumed its present name and form only in 1951. Formerly, it formed the Science side of the Baroda College, which was established in 1881. It then had the departments of Physics, Chemistry and Biology. When the University was started on the 30th April, 1949 the Baroda College was handed over to the University and the University converted its Science side into the present Faculty of Science in 1951. The departments of Physics and Chemistry were strengthened and those of Botany and Zoology were started. The department of Mathematics and the new departments of Statistics and Geography were brought over from the Arts side to the Science side. A department of Biochemistry was added in June, 1955. The department of Geology was started in 1952 and is now located in the Faculty of Technology and Engineering. The Faculty of Science today consists of eight departments of Biochemistry, Botany, Chemistry, Geography, Mathematics, Physics, Statistics and Zoology.

2. Buildings

The Faculty of Science is accommodated in its main building known as the Sayaji Jubilee Science Institute building, which was built in 1937, and the Square Block building near it. There is also a separate small room for the Meteorological Observatory.

A building for the Central Workshop for the Faculty and another for a Vivarium for the Zoology Department were recently built at the cost of Rs. 42,000/-. Grants of the order of Rs. 5 lacs for the construction of these buildings and for an additional block of building for the Faculty, have already been approved by the University Grants Commission and the Government of Bombay. The new block is under construction and is expected to be ready by June, 1960.

3. Courses of Studies

(a) Ph. D. Degree

There is provision for guiding students in research for the Ph.D. degree in the subjects of Biochemistry, Botany, Chemistry, Mathematics, Physics, Statistics and Zoology.

(b) M.Sc. Degree

There is provision for giving instruction to students for the M.Sc. degree by papers in the subjects of Biochemistry, Botany, Chemistry, Geography, Mathematics, Physics, Statistics and Zoology.

(c) B.Sc. Degree

There is provision for giving instruction to students in the Sr. B.Sc. class for the old B.Sc. degree course and to the students in the B.Sc. First and Second Year classes for the new integrated Three-Year degree course, in the subjects of Botany, Chemistry, Geography, Geology, Mathematics, Physics, Statistics and Zoology.

(d) Pre-Medical Course

There is provision for giving instruction to the students for the Pre-Medical course of one year's duration after the Preparatory Science course.

In June 1957, the new B.Sc. First Year class and the Pre-Medical class were started, and the old Intermediate Science class was abolished. In June 1958, the new B.Sc. Second Year class was started, and the old Junior B.Sc. class was abolished. The introduction of the new three-year integrated B.Sc. degree course was completed in June, 1958 by starting the B.Sc. Final Year class and abolishing the old Senior B.Sc. class.

4. General Education

A compulsory course in General Education, consisting of two to three lectures per week on topics of Humanities and Social Science, was given to all the students of the First Year and Second Year B.Sc. and the Pre-Medical classes, the passing standard being an overall minimum C grade in the periodical tests held during the year.

5. Number of students

The number of students on roll in various classes at the beginning of the year 1958-59 was as under :

Class	Men	Women	Total
Pre-Medical	40	20	60
F.Y.B.Sc.	127	15	142
S.Y.B.Sc.	97	10	107
Sr.B.Sc.	108	16	124
Jr.M.Sc.	47	7	54
Sr.M.Sc.	48	2	50
Ph.D.	24	1	25
Total	491	71	562

6. Staff

During the year the teaching and other staff of the Faculty consisted of 7 Professors, 1 Honorary Professor, 7 Readers, 32 Lecturers, 1 Honorary Lecturer, 34 Demonstrators and Tutors, 44 Clerks and technicians and 37 class IV servants. In addition, there were 4 Lecturers and 10 Demonstrators and Tutors, attached to the Preparatory Science course.

7. Library and Reading Room

There was no independent library or reading room in the Science Faculty. The Central University Library—Shrimati Hansa Mehta Library situated near the Science Faculty, was extensively used by the students and teachers of the Faculty. The amount spent during 1958-59 for Science Books and periodicals was Rs. 10,000/- from the Science Faculty budget of the University and Rs. 22,850/- from the University Grants Commission's grants for scientific and technological books. In addition, Rs. 1,000/- were spent on binding, and some books and periodicals were purchased from the University Library budget.

8. Museum, Laboratories, etc.

A Central Workshop for the whole Faculty with a qualified staff of a Foreman, Glass Blower, Carpenter, Electrician and others with a new building and various types of machines was started during the year. With the help of the grants from the University Grants Commission and the Government of Bombay, substantial additions were made during the year to the laboratories and the workshop. The following table gives the cost of equipment in the different laboratories during the year 1958-59:

Laboratory	Cost of equipment as on 1-7-1958	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 30-6-1959
	Rs.	Rs.	Rs.	Rs.
Biochemistry	94,311	—	2,329	96,640
Botany	1,50,822	679	39,023	1,89,166
Chemistry	1,80,559	—	22,600	2,03,159
Geography	56,778	—	32,031	88,809
Physics (including Workshop)	2,44,606	—	48,015	2,92,621
Statistics	62,658	—	450	63,108
Zoology	1,01,058	—	34,955	1,36,013
Total:	8,90,792	679	*1,79,403	10,69,516

* From Bombay Government and University Grants Commission's grants Rs. 1,41,490 were spent.

9. Publications of the members of the staff and students:—

Sr. No.	Name	Title	Name of the Journal wherein published with month of publication
1	Shri B. P. Gothoskar, Kumari S. Ratnam and Dr. C. V. Ramkrishnan	(i) Proliferation of Chick Embryonic Heart Fibro-blast in various media Part I	Indian Journal of Medical Research, 46, p. 699 (September, 1958)
		(ii) „ Part II	Indian Journal of Medical Research, 46, p. 728, (November, 1958)
		(iii) Turbidity Measurements on the Proliferating Animal Tissue Grown in Vitro in a Synthetic Medium	Nature Wissenschaften p. 420, (September, 1958)
		(iv) Proliferation of Chick Embryonic Heart Fibroblast in various media	Experimental Cell Research, 15, p. 429, (1959)
		(v) Application of Anthrone Method for the Estimation of Glucose in a Synthetic Medium etc.	Clinical Chimica Acta (March, 1959)
2	Shri W. M. Deshpande and Dr. C. V. Ramkrishnan	(i) Effect of some Organic Acids on the Activity of Condensing Enzyme of Garcenia Leaves	Nature Wissenschaften (October, 1958)
		(ii) Condensing Enzyme in Garcenia Leaves	Current Science 27, p. 485, (December, 1958)
3	Shri A. P. Joshi and Dr. C. V. Ramkrishnan	(i) Detection of Oxalacetic Carboxylase in Citric producing strain of A. Niger	Journal of Scientific and Industrial Research 17c, p. 156, (1958)
		(ii) Detection of Oxalacetic Hydrolase in A. Niger	Journal of Scientific and Industrial Research, 17c, p. 156, (1958)
4	Shri M. V. Gadgil and Dr. C. V. Ramkrishnan	Chemical Analysis of X-ray mutants of T. Utilis Var Major	Journal of Applied Micro-Biology, (January, 1959)
5	Dr. C. V. Ramkrishnan and Shri P. N. Raina	Detection of Acetyl CoA deacylase in A. Niger	Current Science, 27, p. 487, (December, 1958)

Name	Title	Name of the Journal wherein published with month of publication
6 Sarvashri P. N. Raina, H. R. Chokshi and Dr. C. V. Ramkrishnan	Biosynthesis of Organic Acids during Fermentation of A. Niger in MYG Medium	Enzymologia, 20(2), p. 62, (November, 1958)
7 Sarvashri M. G. Karmarkar, A. D. Deodhar, J. Kapur and Dr. C. V. Ramkrishnan	(i) Effect of Dietary Fat on Fat content on Human Milk	Lancet, 25, p. 909, (October, 1958)
	(ii) Studies on Human Lactation Part I—Diet Survey of Lactating Women etc.	Indian Journal of Medical Research, 47(3) p. 344 (May, 1959)
8 Shri A. D. Deodhar and Dr. C. V. Ramkrishnan	(i) Studies on Human Lactation—Part II	Indian Journal of Medical Research, 47(3), p. 352 (May, 1959)
	(ii) Effect of Socio-Economic Status on Vitamin Content of Milk	Journal of Paediatrics 54(1), p. 34 (January, 1959)
9 Dr. C. V. Ramkrishnan	Separation of Condensing Enzyme in A. Niger from Acetyl CoA deacylase and the effect of Magnesium ion on the purified fraction	Nature, 182, p. 1601 (December, 1958)
10 Dr. A. R. Chavan and Shri A. R. Mehta	Studies on the Grasses of Gujarat, Part II, Grasses of Baroda and its environs	Journal of M. S. University of Baroda, 7(2), (October, 1958)
11 Dr. A. R. Chavan and Shri S. D. Sabnis	The Cyperaceae of Gujarat Part I—Sedges of Baroda and its environs	Journal of M. S. University of Baroda, 7(2), (October, 1958)
12 Dr. A. R. Chavan	Record of Anagallis arvensis L. from Baroda	Science and Culture, 24, p. 186 (1958)
13 Dr. V. G. Phatak and Shri G. M. Oza	(i) Some useful weeds of Baroda, its neighbourhood and Pavagadh	Journal of Bombay Natural History Society, 55, p. 532 (1958)
	(ii) A red or rose variant of Polygale erioptera DC	Journal of Bombay Natural History Society, 55, p. 532 (1958)
14 Dr. V. G. Phatak and Shri B. B. Joshi	Siricocaly Scaber (Nees)	Journal of Bombay Natural History Society, 55, p. 532 (1958)
15 Dr. C. H. Pathak	Effect of Pre-Emergence with 2, 4-D on Weeds in Corn and on various soil properties	Indian Journal of Agronomy, 3, p. 99 (1958)

Name	Title	Name of the Journal wherein published with month of publication
16 Shri S. S. Lele and Dr. Suresh Sethna	Iodination of 7-Hydroxy and 5-hydroxy-4-methyl Coumarin and their methyl ethers	Journal of Organic Chemistry (U. S. A.), 23, p. 17, (1958)
17 Shri S. S. Lele	Pigment of Rephannus caudatus	Journal of Scientific and Industrial Research, 18 B, p. 243 (1959)
18 Shri K. N. Trivedi	Silicon Tetrachloride, a new condensing agent for Pechmann Reaction	Current Science 28, p. 67 (1959)
19 Dr. J. S. Dave and Dr. A. M. Talati	(i) Estimation of Palladium by B-Dioximino-acetol acetanilide	Journal of Indian Chemical Society 36, p. 179 (1959)
	(ii) Estimation of Nickel by L. B. Dioximino-acetol acetanilide.	
20 Dr. J. S. Dave and Shri J. M. Lohar	Formation of Mixed Liquid Crystals in Schiff's Bases	Chemistry and Industry (London), (1959)
21 Shri M. V. Shah and Dr. Suresh Sethna	Chromones and Flavones Part I—Iodination of 5-hydroxy and 7-hydroxy-2-methyl chromone and their methyl ethers	Journal of Chemical Society (London), (1959)
22 Dr. C. M. Mehta and Shri G. H. Patel	Partial Hydrolysis of substituted Amides of Cyanetic Acid by (a) Polyphosphoric and (b) Sulphuric Acid	Current Science 28, p. 200 (1959)
23 Dr. D. V. Gogate	The Uncertainty Principle and Rutherford Scattering	Current Science 28, p. 60 (1959)
24 Dr. N. S. Pandya and Shri C. J. Shah	Etch Figures on Tin and Zinc	Journal of Scientific and Industrial Research 18 B, p. 85 (1959)
25 Dr. N. S. Pandya and Shri J. R. Pandya	Etching of Fluorite	Current Science 27, p. 437 (1958)
26 Shri C. G. Khatri and Dr. K. V. Ramachandran	Certain Problems in Multivariate Distributions—Part I	Journal of the M. S. University of Baroda 7(2), (October, 1958)
27 Shri C. G. Khatri	(i) Computational Procedure for Generalised U or R	Journal of the M. S. University of Baroda 7(2), (October, 1958)

Name	Title	Name of the Journal wherein published with month of publication
	(ii) On Conditions for the forms of the type XAX' to be distributed independently or to obey Wishart Distribution	Calcutta Statistical Association Bulletin 8, p. 162 (April, 1959)
28 Dr. J. C. George, Sarvashri S. D. Pishwika and K. S. Scaria	A Rapid Method for the Qualitative Analysis of free Amino Acids in Animal Tissues by Paper Chromatography	Experimental Cell Research 15 (1958)
29 Dr. J. C. George, Sarvashri S. M. Nair and K. S. Scaria	Studies on the Structure and Physiology of the Flight Muscles of Birds Part III—Alkaline Phosphatase Activity in the Pigeon Breast Muscle	Current Science 27, p. 172 (1958)
30 Dr. J. C. George and Shri K. S. Scaria	(i) Histochemical Demonstration of Lipase Activity in the Pectoralis Major Muscle of the Pigeon.	Nature, 181, p. 783 (1958)
	(ii) Histochemical Study of Dehydrogenase Activity in Pectoralis Major Muscle of the Pigeon and certain other Vertebrate Skeletal Muscles	Quarterly Journal of Microbiological Science, 99, p. 469 (1958)
	(iii) Activation of Pigeon Pancreatic Lipase by Mercuric Chloride	Current Science, 28 (3) (1959)
	(iv) Histo-Chemistry of Muscle Lipase	Journal of Animal Morphology & Physiology Vol. V. No. 1 (1958)
	(v) Further Histochemical Observations on the Adipose Tissue of the Pigeon	Journal of Animal Morphology & Physiology Vol. VI No. 1 (1959)
	(vi) The Pigeon Breast Muscle Lipase	Journal of Animal Morphology & Physiology, Vol. VI No. 1 (1959)
31 Dr. J. C. George and Dr. R. V. Shah	(i) Structural Basis of the Evolution of the Respiratory Mechanism in Chalonia	Proceedings of 15th International Congress of Zoology (London), 1958

Name	Title	Name of the Journal wherein published with month of publication
	(ii) The Myology of the Chelonian Limb Part II—The hind limb musculature of <i>lissemys punctata</i>	Journal of Animal Morphology & Physiology Vols. V and VI No. 1 (1958 and 1959).
32 Dr. J. C. George and Shri R. M. Naik	(i) Relative Distribution of the Mitochondria in the two types of Fibres in the Pectoralis Major Muscle of the Pigeon	Nature, 181, p. 782 (1958)
	(ii) Relative Distribution and Chemical Nature of the Fuel Store of the two types of Fibres in the Pectoralis Major Muscle of the Pigeon	Nature, 181 p. 709 (1958)
	(iii) Studies on Structure and Physiology of the Flight Muscles of Birds Part IV—Fibre Architecture of the Pectoralis Major Muscle of the Pigeon	Biological Bulletin, 116(2) (1959)
	(iv) Studies on the Structure and Physiology of Flight Muscles of Birds Part V—Some Histological and Cytochemical Observations on the structure of the Pectoralis Major Muscle of the Pigeon	Journal of Animal Morphology & Physiology Vol. VI, No. 1 (1959)
33 Dr. J. C. George, Shrimati A. K. Sushleela and Shri K. S. Scaria	(i) A Quantitative and Histochemical Study of Lipase Activity in the Pectoralis Major Muscle of the Bat	Nature Wissenschaften (1958)
	(ii) Studies on the Structure and Physiology of the Flight Muscles of Bats Part III—Alkaline Phosphatase Activity in the Breast Muscle of the Bat	Journal of Animal Morphology & Physiology Vol. V, No. 2 (1958)

Name	Title	Name of the Journal wherein published with month of publication
34 Dr. J. C. George, Sarvashri N. V. Valiyathan and K. S. Scaria	Lipase Activity in Insect Flight Muscle	Experientia, 14 (1958)
35 Shri C. Z. Jura and Dr. J. C. George	(i) Observation on the Jelly of the Egg Masses of Limnaea Planorbis and Succinea with special reference to Metachromasis	Proceedings of the Royal Dutch Academy (1958)
	(ii) A Histochemical Study on the Capsule Fluid of the Egg of the land Snail Succinea Putris	Proceedings of the Royal Dutch Academy (1958)
36 Dr. J. C. George and J. Eapen	(i) Histochemical Demonstration of Lipase Alkaline Phosphatase Activity in the fat body of Desert Locust	Nature, 183, p. 268 (1959)
	(ii) Certain Histochemical and Physiological Observations on the Adipose Tissue of the Pigeon	Journal of Animal Morphology & Physiology 5(1), (1958)
	(iii) Histochemical Demonstration of certain Enzymes in the Adipose Tissue of the Fowl	Journal of Animal Morphology & Physiology, Vol. 5, No. 2 (1958)
37 Dr. J. C. George and Kumari Dolly Jyoti	Studies on the Structure and Physiology of the Flight Muscles of Bats Part II—Relative Reduction of Fat and Glycogen in the Pectoralis Major Muscle during sustained activity	Journal of Animal Morphology & Physiology, Vol. V, No. 1, (1958)
38 Dr. J. C. George	Experimental Fusion of Embryos of Limnaea stagnalis L.	Proceedings of the Royal Dutch Academy (1958)

(b) A book 'Elements of Statistics' written by Shrimati Indira Bhanot, Reader in Statistics was published by Acharya Book Depot, Baroda in August, 1958.

10. Literary, Cultural and Other Activities

(a) Activities by Teachers :

Several teachers of the Faculty took active part in literary and cultural activities in and outside the University. They delivered lectures at the meetings of the Societies of the Faculty and outside, helped the General Education programme of the University and gave talks from All India Radio. A few of them were N.C.C. officers or teachers in charge of major games in the University Union. Several teachers were deputed by the university to attend Conferences, where they read papers and took part in the proceedings.

Papers read at Conferences :

S. No.	Name of the teacher	Title of the paper	Conference
1.	Shri J. R. Pandya	Etching of Mica	Symposium on Crystal Physics, Calcutta
2.	Dr. J. S. Dave and Shri J. M. Lohar	Mixed Liquid Crystals: Effects of Structure on Transition Temperatures	Indian Science Congress, Delhi
3.	Dr. V. V. Rao	Lattice Point Problems on Quadratic Forms	Indian Mathematical Society's Annual Conference, Poona
4.	Kumari Savithri	Quadratic Forms over the Field of Rational Functions	Indian Mathematical Society's Annual Conference, Poona
5.	Professor D. V. Gogate	Some Application of Statistical Mechanics to the Problems of Liquid Helium	Summer School of Theoretical Physics Mussorie
6.	Dr. J. S. Dave and Shri A. M. Talati	Metal Chelates of Some New Dioximes	Symposium on Chemistry of Co-ordination Compounds, Agra

(i) Professor Suresh Sethna was awarded, jointly with Dr. N. M. Shah, the first prize of Rs. 500/- by the Government of Bombay, for their

book "Mahan Vaignaniko Part III" in the Children's Biography (Gujarati) Section.

(ii) Professor J. C. George worked as Editor of the Journal of Animal Morphology and Physiology, of which two issues of Vol. V and one issue of Vol. VI were published from the Zoology Department during the year.

(b) *Activities by Students:*

Students of the Faculty participated in various activities like debates, sports, University Week Competitions, N.C.C., etc. They celebrated the Faculty Day on the 29th January, 1959 and published the Faculty Magazine in March, 1959.

(c) *Other Activities:*

The Botany Department took part in the local Flower and Fruit Show. The 8" refracting telescope was used often to show magnified images of moon, planets and stars. The Meteorological Observatory continued to do its important work accurately and was classed as "Very Excellent" by the Government of India.

11. **Co-curricular Activities**

(a) *Societies*

(i) The Societies of the Faculty formed according to the subjects of studies in the Faculty, arranged a number of lectures, discussions, seminars, symposia, etc. and at the end of the year, held their annual functions. At the invitation of these Societies, the following persons delivered lectures mentioned against each:

S. No.	Speaker	Subject
1.	Professor V. N. Iyer, Garda College, Navsari	Emergence of Resident Strains in Bacterial Populations
2.	Dr. B. V. Mehta, Agricultural Institute, Anand	Soils
3.	Shri Kale, Poona University, Poona.	Blood Coagulation
4.	Dr. M. R. S. Iyengar, Alembic Chemical Works Ltd., Baroda.	(i) Fungi and Industries (ii) Microbe as a Tool

S.No.	Speaker	Subject
5.	Professor T. S. Mahabale, Poona University, Poona.	Flora of Ceylon
6.	Dr. G. I. Patel, Ministry of Food and Agriculture, Delhi	Jute and Arecanut Research in India
7.	Dr. B. D. Tilak, University Department of Chemical Technology, Bombay.	Synthesis of Hetrocyclic Steroids
8.	Dr. J. L. Patel, Alembic Chemical Works Ltd., Baroda	Kinetics of the Hydrolysis of some Tropine-esters
9.	Dr. William Pabst, United Na- tions Technical Aid Association	Quality Control
10.	Dr. D. N. Lal, Director of Statistics, Bihar Government, Patna.	Demographic Survey in Bihar
11.	Dr. P. P. Shah, Poona.	Biosynthesis of C ₁₁ Carotenoids.

(ii) Under the joint auspices of the Physical and Botanical Societies, the birth-centenary of Professor J. C. Bose was celebrated on the 1st December, 1958 under the presidentship of Dr. J. M. Mehta, the Vice-Chancellor. Professor D. V. Gogate and Professor A. R. Chavan spoke on the life and work of Professor Bose.

(iii) Under the auspices of the Chemical Society, a symposium, to celebrate the centenary of the discovery of Kekule-Couper Structure Theory, was held on the 26th December, 1958 under the presidentship of Dr. C. S. Patel, the Pro-Vice-Chancellor, Professor Suresh Sethna, Principal R. D. Desai, Dr. A. M. Trivedi and Professor B. C. Haldar were the speakers.

(b) *Tours and Excursions:*

Students of various departments went on study tours to the places of their respective interest.

12. **Tutorial and Class Work**

Changes in the plan and procedure of the periodical tests were introduced according to the Examination Reform Scheme of the University. The percentage of marks of the final examination, reserved for these periodical tests, was raised to 30% for the B.Sc. First and Second Year and the Pre-Medical classes. For each subject, at least two tests per

term and a terminal test which had twice the weight of one test were held. Short-answer questions were introduced as far as possible. Assessment of the answers of the tests was done by the teachers of the subject. Systematic and regular records of marks were maintained in the prescribed forms. The marks obtained were studied and the system was found to work satisfactorily.

Tutorial periods were not formally shown as such in the time-table ; but teachers often converted a lecture period into a discussion. In post-graduate classes, lectures were supplemented by seminars, library reading, discussions, etc.

13. Other Important Events

(i) At the invitation of the University, the twenty-fourth annual meeting of the Indian Academy of Sciences was held in the Faculty of Science on the 27th, 28th and the 29th December, 1958, under the presidency of Sir C. V. Raman. His Highness Maharaja Fatehsinhrao Gaekwad, Chancellor of the University, inaugurated the meeting and Dr. J. M. Mehta, Vice-Chancellor welcomed the delegates. Sir C. V. Raman delivered the presidential address on "The Infra-Red Spectrum". A number of research papers were read and popular lectures were also delivered. Sir C. V. Raman gave a public lecture on Diamonds.

(ii) Professor J. C. George returned during the year after conducting research work, as a member of an International Team, at the International Embryological Institute, Utrecht, Holland. Dr. R. V. Shah went through a training and research programme in Vertebrate Embryology at the same Institute in the first half of the year 1959, on a scholarship from the Government of Netherlands.

(iii) Dr. V. V. Rao, Lecturer in Mathematics, was awarded the Narsimha Rao Gold Medal by the Indian Mathematical Society for the best paper published in their journal during the last two years.

(iv) Dr. B. D. Laroia, Development Officer, University Grants Commission, paid a visit to the Faculty on the 7th November, 1958.

(v) University Grants Commission Committee, consisting of Dr. B. Mukerjee of Lucknow, Dr. Sharma of Madras and Dr. B. D. Laroia, Development Officer, University Grants Commission visited the Bio-chemistry Department on the 28th March, 1959.



Indian Academy of Sciences Session : Sir C. V. Raman ; Dean, N. M. Bhatt and the Vice-Chancellor Dr. J. M. Mehta

(vi) During the year, the Government of India continued the award of nine research training scholarships, and the University Grants Commission granted one research scholarship, each of Rs. 200/- per month.

(vii) The theses of the following students were accepted during the year for the award of the Ph.D. degree :

<i>Name of the Student</i>	<i>Subject of Thesis</i>
Shri A. M. Talati	Studies in Chelates and Chelation
Shri R. M. Naik	Studies on Certain Aspects of the Functional Anatomy of the Flight Muscles of a Few Representative Birds Exhibiting Different Modes of Flight.

CHAPTER X—(A) FACULTY OF EDUCATION AND PSYCHOLOGY

1. Brief History

This institution was started in 1935 as a Secondary Teacher's Training College by the former Baroda State Government and was located in a few rooms of the Baroda College building. The College provided courses leading to Diploma in Education for graduate teachers and to the Junior Teachers' Certificate for matriculate teachers. It was affiliated to the University of Bombay for B.T. Degree in 1938 and Diploma in Teaching in 1940, and was provided with an independent building. A practising high school was also attached to it. The M. S. University of Baroda assumed charge of the College in 1949; courses leading to the M.Ed. Degree were started during the same year. During 1950 the College was re-organised into the Faculty of Education and Psychology and the teaching of Psychology in the University was assigned to the Faculty. The Faculty started courses in Psychology leading to the B.A. (Special) degree in 1952, and to the M.A. degree in 1954, and those leading to the Post-graduate Diploma in Guidance and Counselling in 1958 and the Diploma in Child Development and Child Psychology in 1959. The Faculty has also started Professional Diploma Courses in Educational Administration and Applied Linguistics in 1959. Advanced courses of studies leading to the M.Ed. and Ph.D. degrees in Education by research were provided in the Institution from 1947 onwards and to the Ph.D. degree in Psychology by research from 1952.

2. Building

During the year under report the Faculty continued to be housed in the building on the West-side of the University campus.

3. Courses of Studies

The Faculty provided the following courses :

- (1) Post-graduate courses :
 - (a) Ph.D. degree in the subjects of Education and Psychology
 - (b) M.Ed. degree by papers and dissertation
 - (c) M.Ed. degree by thesis
 - (d) M.A. degree in Psychology

- (e) B.Ed. degree
- (f) Professional Diploma in Educational Administration
- (g) Professional Diploma in Guidance and Counselling and
- (h) Professional Diploma in Applied Linguistic
- (2) Graduate courses :
 - B.A. (Special) degree in Psychology
- (3) Diploma courses :
 - (a) Diploma in Teaching, and
 - (b) Diploma in Child Development and Child Psychology
- (4) Certificate courses :
 - Certificate in Hindi for the B.Ed. and T.D. students

In addition to the above, the Faculty teaches the following courses in Education and Psychology in different Faculties of the University :

Faculty of Arts :

- (a) Education courses to the students who have taken Education as a subsidiary subject for the B.A. (Special) degree ;
- (b) Psychology courses to the students who have taken Psychology as a subsidiary subject for the B.A. (Special) degree ;
- (c) Social Psychology to the students who have taken Sociology as the principal subject for the B. A. (Special) and M. A. degrees ;
- (d) Psychology to the students who have taken Philosophy for the M. A. degree ; and
- (e) General Psychology to the students of the First Year of the Three-Year degree course in Arts

Faculty of Fine Arts :

- (a) General Psychology to the students of the B. A. (Fine Arts) degree course ; and
- (b) Psychology courses to the students who do the M. A. degree in Art Education, or Art Criticism or Fine Arts

Faculty of Home Science :

- (a) Educational Psychology to the students of the third and the fourth year of the B.Sc. (Home) class ;
- (b) General Psychology to the Second Year ; and
- (c) Special courses in Personality and Mental Hygiene and Advanced Social Psychology to the M.Sc. (Home) classes

4. General Education

The General Education Programme is provided to students reading for the B.A. (Special) degree in Psychology as per University rules.

5. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1958-59 was as follows :

Class	Men	Women	Total
Ph.D.	18	4	22
Post-graduate degrees :			
M.Ed. (Thesis)	13	1	14
M.Ed. (Papers) Junior	16	2	18
M.Ed. (Papers) Senior	15	5	20
M.A. (Psychology) Junior	4	4	8
M.A. (Psychology) Senior	2	2	4
Post-graduate Diploma :			
Diploma in Guidance and Counselling	6	5	11
Degree :			
B. Ed.	89	20	109
B. A. (Special) Junior	4	20	24
B. A. (Special) Senior	4	17	21
Diploma :			
T. D.	34	4	38
Total	205	84	289

6. Staff

During the year, the staff of the Faculty consisted of 2 Professors, 1 Visiting Professor, 5 Readers, 12 Lecturers, 1 Temporary Lecturer, 2 Tutors and 1 Demonstrator, 6 Class III and 8 Class IV servants. In addition to the above, a Co-ordinator was in-charge of the Department of Extension Services, financed by the Directorate of Extension Programmes in Secondary Education. There were also 5 Research Assistants, 1 Research Fellow and 2 Field Assistants working on four research projects financed by different agencies viz. the Union Ministry of Education, Government of Bombay and the Indian Council of Medical Research.

7. Library and Reading Room

The Faculty Library was amalgamated with Shrimati Hansa Mehta Library and the students made use of that Library. The Faculty main-

tained small Departmental Libraries. The Reading Room which is retained provided facilities for general reading.

8. Museum, Laboratories and Audio-Visual Aids

(1) Museum :

The Faculty Museum contains a large collection of teaching aids. During the year 1958-59, about 100 projects were added. These were prepared by students under the guidance of the members of the staff. According to the present practice every student under training prepares a set of illustrative aids for teaching a selected topic or a series of topics. Selected projects are added to the Faculty Museum. The following table will give an idea of the Faculty Museum :

S. No.	Item	Cost of Equipment as on 1-7-1958	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1	Museum	7,587.31	141.25	1,757.97	9,204.03
2	Teaching Aids prepared by the students	2,700.00	1,000.00	100.00	1,800.00

(2) Psychological Laboratories :

The Psychological laboratories of the Faculty are some of the best in the country. They are equipped with a rich collection of precision instruments required for psychological experiments. A separate section of the laboratories which deals with mental tests, has a good deal of modern equipment required for testing intelligence, aptitude, achievements and personality. New additions to the apparatus of the laboratories were made during the year through acquisitions with the assistance of the Wheat Loan Fund and grants from University Grants Commission.

The cost of the equipment of the laboratory is as follows :

Item	Cost of equipment as on 1-7-1958	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 30-6-1959
	Rs.	Rs.	Rs.	Rs.
Laboratory	37,364.49	422.75	51.00	36,992.74

(3) *Audio-Visual Programme :*

The Faculty conducts a course in Audio-Visual Education as an integral part of its teacher training programme. The course is conducted at two levels: (i) as a compulsory subject all the B. Ed. and T.D. students are trained in the operation and maintenance of various audio-visual apparatus; viz., movie projector, filmstrip projector, episcope, tape recorder; etc. and (ii) as an intensive course in the preparation and use of audio-visual aids conducted for those B.Ed. and T.D. students who offer Audio-Visual Education as a field of specialisation.

In co-operation with the Extension Department, seminars and refresher courses in Audio-Visual Education are conducted for inservice teacher.

The Faculty has a movie projector, a gramophone, a filmstrip projector and an episcope for the teaching of the course. However, the introduction of the compulsory course in the revised syllabus as well as the growing demand for educational films make it necessary that substantial additions be made to the audio-visual equipment of the Faculty.

The cost of the articles for Audio-Visual Aids is as follows :

S. No.	Item	Cost of equipment as on 1-7-1958	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1	Audio-Visual Aids	2,192.24	436.00	585.33	2,341.57

9. **Publications**

The following were the publications of the members of the staff during the year 1958-59 :

(A) *Articles or Papers :*

S.No.	Name	Title	Where published
1	Professor T. K. N. Menon	Problems of Teachers Training—A Symposium	The Education Quarterly, March, 1959
2	Dr. M. S. Patel	(a) A Linguistic Approach to English Grammar	Teaching English Vol. V, No. 4, December, 1958 (British Council, New Delhi)
		(b) Teaching English in India	The M. S. T. English Quarterly (Manila, Philippines), Vol. VII, No. 2, July, 1958

S.No.	Name	Title	Where published
3	Shri L. J. Bhatt	(a) Guidance and Student Personnel Services	Journal of Vocational and Educational Guidance, May, 1958
		(b) On the Training of Personnel for Guidance	Shiksha—October, 1958
4	Dr. A. S. Patel	Post-rest Recovery as a function, Effort, Distribution of Practice and Sex differences	Contributed to All India Science Congress, Delhi, 1959
5	Shri K. S. Yajnik	(a) General Education in Indian Universities	Education Quarterly, Government of India, December, 1958
		(b) The First Year at College	The Progress of Education, March, 1959
		(c) The Nature of Social Studies	The Journal of Education and Psychology, April, 1959
		(d) General Education in High School	Education Quarterly, Government of India, June, 1959

(B) *Books or Brochures :*

1	Professor T.K.N. Menon	Report of the Third Seminar on Promotion of Research in Training Colleges	Ministry of Education, New Delhi, January, 1959
	Dr. S. N. Mukerji	(a) Secondary School Administration	Acharya Book Depot, Baroda, January, 1959
		(b) Evaluation of Secondary Schools	Department of Extension Services, Baroda, May, 1959
3	Dr. M. S. Patel	(a) Mahatma Gandhini Kelavani Philsuphi (Gujarati)	Navjivan Publishing House, Ahmedabad, March, 1959
		(b) Report of Seminar on Indian Philosophy of Education and Indian Contribution to Psychology	Faculty of Education and Psychology, M. S. University of Baroda, September, 1958
4	Dr. A. S. Patel	(a) An Experimental Study of Some Factors in Suggestion	Faculty of Education and Psychology, M. S. University of Baroda, September, 1958
		(b) Inhibitory Potential and the Effort Variable in A Perceptual Psychomotor task	Faculty of Education and Psychology, M. S. University of Baroda, September, 1958

S.No.	Name	Title	Where published
5	Shri K. S. Yajnik	On Projects in Dynamic Methods of Teaching (in Gujarati)	Faculty of Education and Psychology, M. S. University of Baroda, November, 1958
6	Dr. (Shrimati) P. Phatak	Children's Drawings	Faculty of Education and Psychology, M. S. University of Baroda, September, 1958
7	Shri R. S. Thakar	Study of Human Relationships in A Secondary School	Faculty of Education and Psychology, M. S. University of Baroda, September, 1958
8	Sarvashri P. B. Nanda, S. D. Dubey and Shib K. Mitra	(a) On item Difficulties of a Scholastic Achievement Test	Faculty of Education and Psychology, M. S. University of Baroda, December, 1958
		(b) A Factor Analysis of Examination marks	Faculty of Education and Psychology, M. S. University of Baroda, December, 1958

(C) Faculty of Education and Psychology, Baroda (Extension Department) :

S.No.	Title	Month of Publication
1.	Projects in Science, Geography and Gujarati	October, 1958
2.	Public Support for Education	October, 1958
3.	Projects in Dynamic Methods of Teaching	November, 1958
4.	Report of the Seminar on English Teaching	March, 1959
5.	Report on Science Clubs	March, 1959
6.	Evaluation of Secondary Schools	May, 1959

(D) Journals :

(i) Journal of Education and Psychology

The Journal of Education and Psychology continued to be published during the year under the Editorship of Professor T. K. N. Menon, Dean of the Faculty. An important feature of the Journal during the year was the publication of a number of articles by scholars from U. K. and U.S.A.

(ii) Journal of Vocational and Educational Guidance

The Journal owes its rebirth to the formation of the All India Educational and Vocational Guidance Association at Baroda in February, 1956. The Journal is published from this Faculty for the All India Educational and Vocational Guidance Association.

10. Literary, Cultural and Other Activities

(1) Extension Service :

The Department of Extension Service to the Secondary Schools, which is financed by the All India Council for Secondary Education, continued its activities in secondary schools in the five districts of South Gujarat, in respect of in-service training of their teachers. The Department organised a number of seminars, workshops, short term courses, week-end courses, visits to schools for guidance, educational exhibitions, library services, summer school of education, and the publication of lectures on important educational topics. The Central Science Club started working for promoting interest in scientific activities. Faculty members play the role of educational consultants to schools that seek advice.

(2) Rural Education Project :

The Government of India sanctioned a project on Rural Education under the Second Five Year Plan on Educational Development. The Faculty continued Ranoli as the centre for working the project. During the year, the Faculty surveyed the nearby villages—Bajwa and Chhani and undertook the following work :

- (i) Organization of Mahila Mandal
- (ii) Setting up a Farmers' Study Circle
- (iii) Library service to children and adults
- (iv) Medical and health service, and
- (v) Cultural and social activities

(3) Other Activities :

Some of the members of the staff delivered public lectures and gave extension talks in the various schools where seminars and workshops were arranged by the Department of Extension Services of the Faculty. They were also associated with academic, literary and cultural activities in and outside Baroda.

11. Co-curricular Activities

(1) The following Clubs and Associations carried out their usual programme of work during the year :

- (a) Faculty Club
- (b) Science Teachers' Club
- (c) Audio-Visual Teachers' Club
- (d) Psychological Society
- (e) Old Students' Association

(2) The students of this Faculty also participated in Inter-Faculty debates and took part in drama, garba, group songs and other competitions organised by the University Union during the University Week.

12. Tutorial and Class Work

(1) Tutorials:

The students of B.Ed. and T.D. classes are divided into groups of ten or twelve participants in each. Every group is managed by a separate tutor. The group meets at least once a week to discuss some of the important topics of education. The students are given weekly assignments for library work and supplementary reading from the necessary reference books. The candidates show keen interest in such group activities, project work and field work assigned.

The class work consists of lectures, demonstrations, discussions and periodical tests. A separate record card is maintained for each candidate, and the weightage given to the tutorial work and tests is 30%. This record reflects all the achievements, extra-curricular activities and academic performances of the candidate in the course of the year's training.

To bring about uniformity in the standards of marking by different tutors and to get an overall estimates of the students, a comprehensive interview was taken by a panel of teachers with all the class records for reference and the procedure yielded useful results.

The existing tutorial system not only had a beneficial effect on the student's achievement but also helped to develop friendly relations between the teacher and the taught.

(2) Practice Teaching:

The organisation of Practice Teaching for B.Ed. and T.D. candidates consisted of (i) demonstration lessons given by members of the staff, (ii) criticism lessons given by student-teachers, (iii) regular practice teaching in local high schools and (iv) an off-campus programme of consolidated practice teaching, observation of lessons and participation, to which small batches of candidates with a member of the Faculty staff were allotted. The places selected for the off-campus programme were Sankheda, Lunawada, Gandevi, Kathor, Balasinor, Virsad, Bagwada, Rayam, Bodeli, Mandavi, Kathlal and Kadod.

(3) Field Work:

The Faculty has introduced a system of Field Work with a view to associating the students directly with the problems of education in the

class-room in their natural setting. The students are divided into small batches, each of which takes up a small investigation under the guidance of a teacher. They go to the schools, meet teachers and study the problems thoroughly, following the recognised techniques of research. It was discovered at the end of the last academic year that the system worked very well and the students profited greatly from it.

13. Other important Events

(1) Among the distinguished visitors to the Faculty during the year were the following:

1. Dr. R. Freeman Batts, Director of Social and Philosophical Foundation, Teachers College, Columbia University, New York
2. Col. Q. H. Zaidi, Vice-Chancellor, Muslim University, Aligarh
3. Dr. Young, Professor of Philosophy, Illinois
4. Mr. John Goatly, Regional Representative of the British Council, Bombay
5. Shri Ved Prakash, Assistant Educational Adviser to the Government of India, New Delhi
6. Shrimati Violet Alva, Deputy Minister for Home Affairs, Government of India, New Delhi
7. Shri Hitendra Desai, Minister for Education, Bombay State
8. Shri Bakshi Gulam Mohammad, Prime Minister, Jammu and Kashmir State
9. Mr. F. F. Hill, Mr. G. F. Gant, Dr. Ensminger and Dr. E. Woodman, Ford Foundation Experts
10. Dr. Sterling P. Lamprecht, Professor of Philosophy, Amherst College
11. Dr. S. Bhattacharya, Education Officer, University Grants Commission
12. Messrs. A. R. Dawood and E. W. Franklin, Members of the Assessment Committee, All India Council for Secondary Education

(2) Professor T. K. N. Menon attended the Annual meetings of the World Conference of Organisations of Teaching Professions held at Rome from the 31st July to the 6th August, 1958 and was elected as the Chairman of the Executive Committee of the International Council on Education for Teaching.

- (3) Professor T.K.N. Menon worked as Director of
- (a) Evaluation Workshop in General Science and Social Studies held in the Faculty of Education and Psychology from the 26th to the 31st December, 1958 sponsored by the All India Council for Secondary Education.
 - (b) The follow-up Workshop of previous Seminars for Headmaster of Bombay, Rajasthan and the Punjab which was held in the Faculty of Education and Psychology from the 29th January to the 1st February, 1959, sponsored by the All India Council for Secondary Education.
- (4) Dr. M. S. Patel worked as Director of English Teachers' Seminar held from the 31st October to the 9th November, 1958 sponsored by the All India Council for Secondary Education and Department of Education, Bombay State.

(B) UNIVERSITY EXPERIMENTAL SCHOOL

1. Brief History

The University Experimental School was started in 1951 by the University and later on in May, 1951 four Gujarati classes of the former Baroda High School were taken over by the University. In the beginning the school thus had six classes *i.e.* Primary Class I and Secondary Class V and VIII to XI. A Class was added to this every year and since June, 1953 the University Experimental School has become a full-fledged High School complete with eleven classes. The school was established for the purpose of providing a laboratory to the Faculty of Education and Psychology to conduct experiments in educational theory and practice and also to initiate on its own some educational experimentation.

2. Building

The school has continued to occupy the ground floor of the Faculty of Education and Psychology. There is sufficient accommodation to continue the class room teaching, but the school is facing an acute shortage of a good Library-cum-Assembly Hall to enable the children to develop their reading interest and to facilitate their assembly-meeting, group-study and day-to-day problem discussion. The present building has a good Open Air Theatre, some space for gardening and a room for canteen and a workshop room. The school also needs some more open space for cricket and other outdoor games.

3. Courses of Study

The School follows the syllabus prescribed by the Bombay State Education Department duly supplemented by a well-planned programme of Project Method and experimentation. The study programme is also supplemented by a number of excursions every year which enables the children to collect data by personal verification and thus stimulates the development of their knowledge and also inculcate in them the habit of minute observation and study. The Project study is also co-related with their study of Art. The children draw maps and charts under the supervision of the Art Master and the guidance of the subject-teacher.

4. Experiments

During the year under report, the school has carried out the following experiments in education :

(i) Supervised Study Method :

This experiment on the teaching method was undertaken by Shri J. J. Patel with class X for the teaching of Physiology and Hygiene. The whole topic was distributed among the children in the form of small sub-topics. The children tried to study the units on their own and the teacher supervised and instructed them where it was necessary. Eminent doctors were invited to listen to the reports prepared by the children and then they were followed up by the discussions duly carried out by the doctor. The study was found to be very interesting and its results are being published.

(ii) Small Scale Experiment in Examination Reform :

Under financial aid from the All India Council for Secondary Education, New Delhi, the School has carried out their experiment during the year under report. The experiment is under progress and an interim report was submitted to the council. The experiment is conducted in three phases. The first phase is over. During the first phase, 10 students who were weak in certain subjects were given extra remedial coaching for two months and then were left to themselves. At the same time they were under observation, and this ended the second phase. During the third phase as a result of observation and screening of the periodical tests pupils were selected for individual guidance and coaching. Diagnostic tests were given to ascertain the nature of weakness and causes. Special assignments were given to the pupils. This was carried on from January to March. The final assessment showed that 51 students showed some definite progress. Case studies of 10 students were undertaken and guidance was also given to 2 students in choosing their future careers.

In general the school has been trying experimental changes in Examination and the Evaluation Technique for the last five years. The Examination is spread out in the form of periodical tests based upon the sub-units of the syllabus covered, and effort is made to evaluate the whole child. These results are taken into consideration at the time of the annual promotions. An effort is made to carry on the two aspects of education — teaching and evaluation as a co-ordinated and continuous activity.

(iii) Self-Government in School

The school has a students' council consisting of elected representatives of the classes. The Council discusses and helps in solving problems

arising out of various activities. There are sub-committees for attending to various activities such as games.

To give children an actual experience of managing an institution, one day was fixed when the whole school was managed and run by the school children who performed the duties of the head and the assistants, from the principal to the menials.

(iv) Home in the School

This was a novel feature of the activity conducted with class I. This helped the teachers to mark the complete behaviour of the Individual Child for the whole day. Children of Class I and II were called to the school in the evening. They slept for the night in the school and had their whole day programme on the next day. In the evening their parents were invited to discuss their problems. This also enabled some parents to attend the meeting almost compulsorily. This experiment proved very useful to the teachers and it has helped the children to a greater extent as they had their own friends with them for 24 hours.

5. Fostering General Knowledge

Over and above regular programme of debates, assembly-discussions, group discussions, samiti meetings and celebrations, the school encourages all the children to appear at other examinations and also help them in their study for these examinations. This helps them in fostering general knowledge in them as well as providing opportunities to study other subjects and express their abilities. These examinations will be very useful to them in their future life. Some students secured prizes for standing first in various examinations.

6. Number of students

The total number of students taking instruction in the school at the end of the year was 393 : 224 Boys and 169 girls.

7. Staff

The staff consists of one Principal, 16 Teachers, 3 Class III and 6 Class IV servants.

8. Library and reading room

The school library has a stock of about 8,000 books. About 2,000 books were added during the year. The school has a system of class-library through which the children are encouraged for intensive supple-

mentary reading. The school continued to subscribe to a number of journals of educational value.

9. Museum and Laboratory

The School has a fully equipped laboratory and now provides facilities for individual experiments and also equipments of the Science Club. The school received a grant of Rs. 1200/- from the All India Council for Secondary Education, New Delhi for strengthening the activities of the Science Club. The children have prepared a large number of articles in the Science Club. This also includes a number of charts prepared by them for their project study of 'Scientists and their Bequests'. The infant museum is regularly enriched by additions of articles collected by children while on excursion for the collection of data. The Museum has now 4 wall cases in the corridor which are adorned by the toys purchased or prepared by children. The toys represent a good collection of the art of different districts of India.

10. Publications by the members of the staff

Name	Title of the paper	Where published
1. Shrimati U. J. Rana	Report on the Project : Light in Daily Life	Progress of Education, November, 1958
2. Shri M. D. Trivedi	Report on the Project : Heat in Daily Life	Teacher Education, October, 1958
3. Shri A. J. Desai	Science Club (Booklet)	Department of Ex- tension Services, Faculty of Education and Psychology, Baroda, March, 1959

11. Festivals and Important Events

(1) The School celebrated Jayantis of Lokmanya Tilak, Mahatma Gandhi and Gurudeva Rabindranath Tagore, Ganesh Chaturthi and Sharadotsava. The students gave an excellent Radio programme and presented the dance ballet 'Ek hati Rupa'.

(2) A young team of the children participated in the programme arranged by the Children Little Theatre Bombay and presented the dance ballet 'Ek hato Raja'.

(3) The A.C.C. cadets organised a 3-day camp at Gotri, prepared an excellent play-ground and gave an entertainment programme. The

children of the School had one day camp at Subhanpura where they cleaned the road leading to the village.

(4) The children of the School participated in sports, elocution and other competitions and invited eminent persons for lecture work.

(5) The School planned a study tour to Ajanta, Wardha, Bhilai, Hirakund, Tatanagar, Calcutta, Shantiniketan, Durgapur, Chittaranjan, Mithon Dam, Dhanbad, Sindri, Banaras, Lucknow, Kanpur, Allahabad, Sanchi, etc.

(6) The result of the S.S.C. class of the School at the S.S.C. examination of the Bombay State was 97%.

CHAPTER XI—FACULTY OF COMMERCE

1. Brief History

The Faculty of Commerce originally came into existence as Pratapsinh College of Commerce and Economics, Baroda, in 1942, and was affiliated to the University of Bombay. It was taken over by the M. S. University of Baroda in 1949. In the year 1950 the first two years of the Institution were absorbed in the Intermediate College established in that year. The Intermediate class is now merged in the three year degree course started in the year 1957.

2. Building

The Faculty is now housed in Social Sciences Block. There are in all six big halls. F.Y. B.Com., M.Com., Post-graduate Diploma in Banking classes are held in the morning. S.Y.B.Com. and Third Year B.Com. classes are held in the afternoon. Diploma in Co-operation class is held in the morning in the main building of the old Baroda College. There are four teachers' rooms in the new building. The rest of the members of staff are provided cubicals in the old Baroda College buildings.

3. Courses of Study

The Faculty provides instructions in the subjects prescribed for the B.Com. and M.Com. degree examinations and for the Post-graduate Diploma in Banking and an under-graduate Diploma in Co-operation examinations. The three year degree course in Commerce was introduced in the Faculty during the year 1957-58.

4. General Education

General Education is a compulsory part of the curriculum for the First and Second years of the three year degree course. The programme is prepared, announced and organised by the department of General Education. Attendance at these lectures is compulsory and a student in order to pass the whole examination of the Faculty has also to pass in the General Education programme.

5. Number of Students

The number of students enrolled at the commencement of the session 1958-59 was as under :

Class	Men	Women	Total
(1) Ph. D.	1	—	1
(2) Jr. M. Com.	19	—	19

Class	Men	Women	Total
(3) Sr. M. Com.	8	—	8
(4) Diploma in Banking	9	—	9
(5) F.Y. B.Com.	246	1	247
(6) S.Y. B.Com.	236	1	237
(7) Third Year B. Com.	136	—	136
(8) Diploma in Cooperation	8	—	8
Total:	663	2	665

6. Staff

During the year, the staff of the Faculty consisted of 1 Professor, 5 Readers, 6 Lecturers, 3 part-time Professors, 4 Class III and 7 Class IV servants. Teaching work in the subjects of English, Mercantile Law, Statistics and Mathematics is managed by the English, Law, Mathematics and Statistics Departments respectively.

Members of staff of the Faculty do teaching work in the Faculty of Technology and Engineering. Close coordination exists between the teaching staff of the Economics Department of the Faculty of Arts and of the Faculty of Commerce.

7. Publications by the members of the staff

Name of the member	Title	Name of the Journal wherein published with month of publication
Shri H. B. Desai	The Management of State Enterprise	Journal of Commerce (Conference Number December, 1958.)

8. Literary, Cultural and Other Activities

Shri R. B. Shah, Deputy General Manager, United Commercial Bank, Calcutta gave a series of lectures as a Visiting Professor to the students of the Post-graduate Diploma in Banking on the subject 'Instrument and Advances of a Bank'.

In addition the following persons from the local Banks as well as outsiders gave talks to the students of the Post-graduate Diploma in Banking on the subjects mentioned against them :

Name	Subject
1. Shri G. C. Basu	Principles of Bank Lending
2. Shri J. S. Pathak	Consideration of Advanced Proposal
3. Shri I. B. Chaudhari	Bills section in a Bank
4. Shri M. B. Deshmukh	Finance for Small Scale Industries
5. Shri V. C. Patel	Practical Banking to Diploma Banking Students

- | <i>Name</i> | <i>Subject</i> |
|----------------------|---|
| 6. Shri H. T. Parekh | (i) Industrial Finance
(ii) Business as a Career |
9. **Co-curricular Activities**
- (i) During the session some lectures were arranged by the Faculty Students Association.
- (ii) The National Plan Day was celebrated on the 12th, 13th and the 15th September, 1958 by the Planning Forum. A debate and symposium were arranged on these days.
- Tour:*
- An educational tour for the Banking Diploma students was organised in the last week of March, 1959. They visited industrial and historical places at Bangalore, Bombay, Mysore and Madras.
10. **Tutorial and Class Work**
- During the year students were given four topics in every subject of their study and marks were allotted to the answers out of a maximum of 20 marks. Moreover 10 marks were reserved for Viva Voce and attendance for F.Y. and S.Y. Classes. These marks were later added to the marks obtained by them in their papers in the University Examination.
11. **Other Important Events**
- (1) The Faculty celebrated its Annual Day on the 14th February, 1959 when the Vice-Chancellor Dr. J. M. Mehta gave away the prizes.
- (2) Professor B. G. Shah worked on an assignment from the Central Bank of India to write a 'Book of Instructions for the Bank employees'.
- (3) The Dena Bank Trophy Debate was held on the 13th September, 1958 under the Chairmanship of Shri P. B. Kale, Manager, Sarabhai Chemicals, Baroda. The subject was "In the light of our Foreign Exchange Difficulties immediate devaluation of the Rupee is desirable". The following Colleges in Gujarat participated:
1. H. L. College of Commerce, Ahmedabad
 2. Law Society, Sheth H. A. Commerce College, Ahmedabad
 3. Faculty of Commerce, Baroda
 4. M. J. College of Commerce, Bhavnagar
 5. Shri K. P. College of Commerce, Surat
 6. B. J. Vanijya Mahavidyalaya, Vidyanagar
- The trophy was won by M. J. College of Commerce, Bhavnagar.

CHAPTER XII—FACULTY OF MEDICINE

(A) MEDICAL COLLEGE

1. **Brief History**

The scheme of starting a Medical College at Baroda was sanctioned by the former Baroda State Government in the year 1946. A sum of Rs. 40 lakhs was set apart for its building and equipment. The College started working from June, 1949. Though it is a constituent college of the University, its financial and administrative control continues with the Government of Bombay.

2. **Building**

The College is housed in a building situated in the compound of the Shree Sayaji General Hospital.

3. **Courses of Studies**

The College conducts courses leading to the degree of M.B., B.S. as well as post-graduate courses in degrees of M.D., M.S., M.Sc. and diplomas of D.A., D.Ped., D.C.P., D.L.O., D. O. and D.V. & D. The post-graduate teachers in clinical and non-clinical subjects have been recognised since the 15th June, 1954.

4. **Number of students**

The number of students enrolled in various classes in the year 1958-59 was as under:

<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
(a) Ph. D.	—	—	—
(b) Post-graduate Degree			
M. D.	23	4	27
M. S.	12	—	12
M. Sc.	6	2	8
(c) Post-graduate Diploma			
D. C. P.	7	—	7
D. O.	2	—	2
D. Ped.	4	—	4
D. V. & D.	3	—	3
D. A.	2	—	2
D. L. O.	4	—	4
	63	6	69

Class	Men	Women	Total
(1) Degree			
Ist M. B., B. S. Ist Year	38	20	58
IIInd Year	52	9	61
(Repeaters) IIInd Year	9	—	9
IIInd M. B., B. S. IIIrd Year	48	10	58
IVth Year	49	8	57
IIIrd M. B., B. S. Vth Year	56	3	59
(Repeaters) Vth Year	33	3	36
	<u>285</u>	<u>53</u>	<u>338</u>

5. Staff

The staff of the College consisted of a Principal, 8 Professors, 11 Lecturers, 13 Junior Lecturers, 12 Honoraries, 16 Assistant Honoraries, 10 full-time Teachers in the allied Hospital, 34 Class III and 46 Class IV servants.

6. Library and Reading Room

The following are the figures showing the average daily attendance and the circulation of books :

Sr. No.	Particulars	Number
1.	Average number of students making use of the Library daily	57
2.	Average number of teachers making use of the Library daily	40
3.	Total number of books issued to the students during the year	12,259
4.	Total number of books issued to the teachers during the year	3,631

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

Sr. No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of journals) as on 1-7-1958	6,623	1,06,228=00
2.	Books written off during the year	2	48=56
3.	Books added during the year	419	11,128=46

S.No.	Particulars	Number	Cost in Rs.
4.	Books as on 30-6-1959	7,040	1,17,308=79
5.	Journals subscribed during the year	112	8,475=09
6.	Amount spent on binding during the year	—	462=00
7.	Total amount spent for Library and Reading Room during the year	—	20,065=55
7.	Museum, Laboratory, Studies, Workshops, etc.		
	The College museum contains specimens as under :		
1.	Anatomy (including comparative Anatomy Models and Embryology)		168
	Specimens	935	
	Charts	290	
	Frames	29	
	Slides	900	
2.	Pharmacology Drugs (including preparations of various firms)		3,462
	Specimens	3,462	
	Charts	190	
	Frames	118	
	Photos	99	
3.	Pathology		6
	Models	6	
	Specimens	1,100	
	Charts	80	
	Frames	116	
4.	Preventive and Social Medicine		115
	Models	115	
	Charts	55	
	Slides	403	
5.	Forensic Medicine (including Toxicology)		72
	Specimens	72	
	Charts	3	
	Drugs	113	

The following table shows the total cost of equipment in the museums, laboratories and the artist's studios :—

S.No.	Item	Cost of equipment as on 1-7-1958	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1.	Museum	2,94,652	110	26,594	3,21,136
2.	Laboratories	5,17,643	4,771	64,871	5,77,743
3.	Studios (Artist)	12,663	—	—	12,663
		<u>8,24,958</u>	<u>4,881</u>	<u>91,465</u>	<u>9,11,542</u>

8. Publications of the members of the staff

The following were the publications of the members of the staff during the year :

Sr. No.	Name	Title	Name of the Journal wherein published with month of publication
1	Dr. J. D. Pathak	(a) Some problems of Posture in Treatment (b) Some effects of introducing Helin to Human stomach	Healer—February, 1959 Indian Journal of Medical Research, 47.3, May, 1959
2	Dr. B. P. Chakravorti	(a) Are there Chromaffin cells inside the ventricle of frog's heart? (b) Possible Bio-chemic explanation for unsuccessful thiamine therapy in Neuritis	Indian Journal of Medical Science, April, 1959 Anticeptic, December, 1958
		(c) A preliminary study on the effects of superficial application of salt solution on living frog	Indian Journal of Physiology and Pharmacology, October, 1958
3	Dr. M. L. Pai	(a) Some more observations on influence of cooking on the nutritional values of foods cobalt contents of some cooked foods (b) Effect of cooking by different methods on nutritional value of foods.	Indian Journal of Physiology and Pharmacology, Vol. 11, No. 3, July, 1958 Journal of Post-graduates Medical, Vol. 5, No. 1, January, 1959

S. No.	Name	Title	Name of the Journal wherein published with month of publication
		Mineral contents of foods in cooked and pre-cooked condition	
4	Dr. M. L. Pai and Dr. T. V. Patel	(a) Some observations on Glucose Tolerance Test and on the differentiation Test of Lactosuria from Flucosuria in Abortions (b) Some observations of the causative relationship between the thiamine Riboflavin and Nicotinic acid deficiency and occurrence of Toxamias of pregnancy	The Journal of Obstetrics and Gynaecology of India, Vol. IX No. 1, September, 1958 Indian Journal of Medical Research 46, 5, September, 1958
5	Dr. J. D. Pathak	A book on—' ખોરાક : આરોગ્ય અને માંદગીમાં ', બીજી આવૃત્તિ	Gujarati Research Society, Bombay September, 1958
6	Dr. G. K. Karandikar with Dr. Salunkhe, Dr. Luhar and Dr. M. V. Patel	Anthelmintic use of Hydrogen Peroxide	Indian Journal of Medical Science, p. 95, Vol. 13, No. 2, 1959
7	Dr. A. B. Sayed with Dr. P. T. Acharya and Dr. S. P. Amin	Comparative evaluation of concentration methods for the detection of cysts and ova in faeces	Indian Journal of Medical Association, Vol. 32, No. 8, 1959
8	Dr. J. Mordecai, Dr. H. H. Shah & Dr. K. N. Sahgal	Sarcosporidiosis.—A case report	Indian Journal of Medical Science, May, 1959

S. No.	Name	Title	Name of the Journal where- in published with month of publication
9	Dr. M. A. Patel, Dr. B. A. Sayed & Dr. K. N. Sahgal	Rupture of endorue trial cyst of ovary as a cause of acute abdo- minal symptoms	Journal of Obstetrics and Gynaecology, De- cember, 1958
10	Dr. P. T. Acharya	Comparative evaluation of concentration me- thods for the detection of cysts and ova in faeces	Indian Journal of Medical Association, Vol. 32, No. 8, April, 1959, pp. 322-324
11	Dr. N. Srinivasan	(a) Principles of treat- ment of chronic Otitis Media (b) Agranulocytic Angina	Indian Journal of Otolaryngology, Sep- tember, 1958 Journal of Christian Medical Association of India, December, 1958
12	Dr. B. S. Verma	Psoriasis—Combined therapy with Vit. A and Vit. B. 12	Indian Journal of Der- matology and Venero- logy, Bombay 4. Vol. 1, October, 1959

9. Co-curricular Activities

- (i) 53 students with Professor Niyogi, Professor of Preventive and Social Medicine of this College visited the following institutions in December, 1958: (a) Tata Mills, (b) Children Orth. Hospital, (c) K. E. M. Hospital, (d) Tata Oil Mills, (e) Dadar Blind School, (f) Infectious Diseases Hospital. The University contributed Rs. 700/- towards the travelling expenses of this educational tour.
- (ii) The students participated in the University Week Celebrations in December, 1958.
- (iii) Annual sports of the College were held in January, 1959.
- (iv) Tenth Annual Social was held on the 1st March, 1959 when the students organised an entertainment programme.
- (v) The College participated in Inter-Medical, Inter-Faculty and Inter-University sports, debates, etc. during the year.
- (vi) The fifth issue of the College Magazine was published in April, 1959.

10. Tutorial and Class Work

Junior Lecturers are entrusted with the work of tutorials and proper records are maintained.

11. Other Important Events

Physiologists from South East Asia sponsored by the World Health Organisation headed by Professor R. Kenny paid a visit to the College from the 17th to the 20th November, 1958.

(B) SHETH UJAMSHI PITAMBERDAS AYURVEDIC
RESEARCH UNIT

1. Brief History

The Sheth Ujamshi Pitamberdas Ayurvedic College was established on the 28th June, 1922 in Patan with the help of a donation from Sheth Ujamshi Pitamberdas Modi. In the year 1952 the University took over the college on condition that the Government of Bombay should give a yearly grant of Rs. 36,000/- for its maintenance, and organised it into a Research Unit at the Medical College, Baroda. The Unit completed the preliminary organisation work by the end of June, 1954 and started its research activities in Ayurveda.

2. Buildings

The museum, library and the administrative office of the Unit are accommodated in two halls on the first floor of the Medical College building. Its Rasashala is housed in a separate building constructed by the University in the east of the Medical College. A new building for the Out-patient Department of the Unit was completed at a cost of about Rs. 25,000/- in the year 1957-58.

3. Staff

The staff of the Unit consisted of a Head (Honorary), a Senior Vaidya, a Research Medical Officer, a Junior Vaidya, an Assistant Research Vaidya, a Research Fellow, two Research Assistants, an Investigator, 3 Class III and 5 Class IV servants. The Professor and Head of the Department of Pharmacology in the Medical College, Baroda works as Honorary Head of this Unit.

4. Functions of the Unit

The Unit is started with the object of conducting research in Ayurveda. For this purpose the Unit maintains a library, a museum of medicinal herbs, drugs, etc., a Rasashala and In-patient and Out-patient Departments.

5. Library

During the year under report 220 books have been added to the total number of books upto June, 1958 which was 2,085 and the number has thus increased from 2,085 to 2,305. 7 Ayurvedic Journals were also subscribed during the year.

6. Museum

75 correct herbal specimens have been mounted on herbarium sheets and added to the museum.

7. Research

(a) Out-patient Department :

During the year under report 1,768 patients took advantage of clinical facilities provided by the Unit. The disease-spectrum of patients who attended the O.P.D. was as follows :

पाण्डु—ग्रहणी—उदर—शोथ—वातव्याधि—कुष्ठ—गुल्म—श्वासकास—प्रमेह—अपची—
प्रदर—अपस्मार and ज्वर.

(b) In-patient Department :

39 patients were admitted and treated in this department during the year under report. These 39 patients were diagnosed as shown below :

आमवात-सन्धिवात—2, त्रिशेषज्वर—1, पाण्डुरोग—3, कृमिकोष्ठ—4, वातव्याधि (पक्षाघातसहित)
—4, राजयक्ष्मा—2, कुष्ठरोग-वातरक्त—2, ग्रहणी—2, अर्श-उदावर्त वगैरे—2, मधुमेह—2,
कासश्वास—2, अन्नद्रवशूल—1, उदररोग-प्लीहोदर—1, सोमरोग—1 and संकीर्ण—10.

8. Rasashala

85 Ayurvedic medicines were prepared in the Rasashala during the year.

9. Literary work

(1) Shri N. M. Pathak, Senior Research Vaidya wrote a reflective paper on ओज in सचित्र-आयुर्वेद. The comments made by other writers on the subject has been answered by him in another article in the same journal. He has also prepared लक्षणसारणी on श्वासप्रमेह and कास.

(2) Shri Y. R. Pandit, Junior Research Vaidya has prepared

(i) a chart of पंचकर्मा,

(ii) a note on रस—गुण—वीर्य—विपाकादि विज्ञान,

(iii) a note and chart on सिरविध,

(iv) A table of preparations and indications etc. of certain indigenous plants as desired by the Head.

10. Laboratory Work

From August, 1958 a new activity related to Pharmacognosy of drugs was started. Initially the Research Assistant was trained in pharmacognosy techniques. A systematic study was made, using these standard techniques of the following 16 specimens of drug-parts in the museum :

- | | |
|--------------------------|-------------|
| 1. Boerrhavia diffusa | } Purarnava |
| 2. Trianthena monogyna | |
| 3. Quillaia bark | |
| 4. Ipecac root | |
| 5. Aswagandh root | |
| 6. Stropahanthus seeds | |
| 7. Cascara sagrada | |
| 8. Cascarilla bark | |
| 9. Nux vomica | |
| 10. Cinchona 2 sps. | |
| 11. Viburnum prunifolium | |
| 12. Poppy capsule | |
| 13. Rubia cordifolia | |
| 14. Cochineal insect | |
| 15. Sweet flag | |
| 16. Gokhru | |

Simultaneously the following six whole medicinal plants were examined with respect to their character and anatomy :

1. Acalypha indica
2. Euphorbia pilulifera
3. Santalum album
4. Crotalaria medicagena
5. Enicostemma littorale
6. Clerodendrum inerme

Special items of equipmental side were procured and since February, 1959 the following four medicinal plants have been studied fully :

1. Evolvulus alsinoidas
2. Convolvulus microphyllus
3. Clitoria ternatea
4. Cressa cretica.

A programme for cultivational study of medicinal plants has been drawn and it is hoped to begin work during the monsoon. Preliminary work has been started on the following 6 plants which are proposed to be studied next year :

1. Sphaeranthus indious
2. Cassia occidentalis and C. tora
3. Acalypha indica and Acalypha ciliata

4. Cleome viscosa
5. Crotalaria medicagena
6. The ' balas ' of Ayurved consisting of a study of at least five different plants known as ' bala ' in Ayurveda.

11. Publications (Indian Journal of Pharmacy)

- (i) " Shankhpushpi "—a Pharmacognostic study
(i) Evolvulus alsinodes
- (ii) " Shankhpushpi "—a Pharmacognostic study
(ii) Convolvulus microphyllus

12. Prakruti Research

(1) During the year under report, 16 students were re-examined from among the old students previously examined, the changes concerning each case were noted and their Prakruti was again determined. In this investigation it was found that the results of the old प्रकृति विनिश्चय with some students had been altered. In all 25 students were re-examined for Prakruti this way. A comparative statement of the change observed in their प्रकृति पुनः परीक्षण was also prepared.

(2) Clinical discussions were held and recorded on the following diseases :

कृमि-उन्माद-श्वास-हृद्रोग-वातरक्त-ग्रहणी and आमवात.

13. Visitors

Shri Haridatta Shastri, the Director of Ayurveda, Bombay State and Col. B. H. Zaidi, the Vice-Chancellor, Muslim University, Aligarh visited the Unit on the 15th November, 1958 and the 18th February, 1959 respectively.

CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. Brief History

The Faculty of Technology and Engineering is a development of a very old institution popularly known as the Kalabhavan, which was founded in the year 1890. Till the year 1948, it continued to have Diploma and Certificate Courses. The Institution was transferred to the University on the 30th April, 1949. Before that the former Baroda Government had passed orders to start an Engineering College in the Institution providing courses leading to the Degree of B.E. Civil, Mechanical and Electrical Engineering and had provided necessary funds for additional buildings and equipment. The University merged these two institutions into the Faculty of Technology and Engineering.

Under its development programme the University instituted the following additional degree and post-graduate courses with the strength as mentioned against each.

Course	Year	Number of admissions
1. Textile Engineering	June, 1953	15
2. Architecture	June, 1954	40
3. (i) Textile Technology	June, 1955	10
(ii) Ph.D. Degree in Textile Chemistry	June, 1955	2
4. M.E. (Civil, Mechanical and Electrical Engineering)	June, 1956	6

This Faculty discontinued, with effect from June, 1957 the conduct of Diploma courses in Engineering and, instead, increased the number of the admissions into the Degree Courses in Engineering. Under the same scheme the Diploma Courses in Civil, Mechanical and Electrical Engineering are now conducted with increased admissions in a separate Polytechnic established since 23rd June, 1957 for the purpose; only the first and the second year Diploma classes in Engineering were held at the Polytechnic during the year under report. The third *i.e.* the final year of the Diploma Courses in Engineering will be transferred to the Polytechnic from June, 1959.

2. Buildings

The buildings of the Faculty comprise the following :

I. Main building accommodating

1. Two Electrical Laboratories (Junior & Senior)
2. Electronics Laboratory.
3. Testing of Materials Laboratory.
4. Applied Mechanics Laboratory.
5. Soil Mechanics Laboratory.
6. Highway Engineering Laboratory.
7. Physics Laboratory.
8. Geological Laboratory.
9. Ten Drawing Halls.
10. Thirty class-rooms.
11. The Dean's room and office.
12. The library.
13. Twenty-seven rooms of professors & staff members.
14. Surveying instrument's room.
15. Faculty Auditorium.
16. Studio and Model Room.
17. Students' Union Room.
18. Canteen.

II. The Hydraulic & Metallurgical Laboratories

III. The gas room.

IV. The workshop and Textile Technology and Textile Chemistry premises. These accommodate

- (a) The Workshop comprising the carpentry shop, fitting shop, lathe shop and machine shop, smithy, foundry, welding shops and the furniture making shop and the workshop office and stores,
- (b) Heat Engines Laboratory,
- (c) Chemistry and Textile Chemistry Department Laboratories,
- (d) Textile Technology Department, preparatory weaving and spinning machinery sections and Textile Testing Laboratory, and
- (e) TAIRO Office.

The construction for providing additional accommodation of 3,200 sq. ft. under the Expansion Scheme has also been completed and occupied. The construction of a tar road in continuation of the corner connecting the TAIRO Office and the smithy shop and the construction of the extension between the weaving and spinning sections of the Textile Engineering Department are also completed.

The construction of extension to the Boiler House and the Heat Engines Laboratory of the Faculty are nearing completion while the

arrangements for acquiring additional space for extension of the Textile Chemistry Section on the eastern side of the Workshop premises are still on hand.

3. Courses of studies

(1) Post-graduate courses

(i) Courses leading to the Degree of M. E. (Civil, Mechanical and Electrical Engineering),

(2) Degree courses

(i) Courses leading to the Degree of B. E. (Civil, Mechanical and Electrical Engineering),

(ii) Courses leading to the Degree of B. Text. (Engineering),

(iii) Courses leading to the Degree of B. Text. (Tech).

(iv) Courses leading to the Degree of B. Arch. (Bachelor of Architecture).

(3) Diploma courses

Courses leading to the Diploma in Civil, Mechanical and Electrical Engineering, Textile Chemistry and Textile Technology.

(4) Certificate courses

Courses leading to the certificates of Turner and Fitter, Wireman, Carpentry, Dyeing and Weaving.

4. General Education

Two lectures per week are given to the F. E. Degree Classes in Civil, Mechanical and Electrical Engineering and Textile Engineering and Textile Technology on various subjects of general interest such as music, drama and dramatics, humanities and other social sciences as arranged by the department of General Education of this Faculty.

5. Number of students

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

	Men	Women	Total
Post-graduate course			
Master's Degree	10	—	10
Degree Classes			
F.E. (Civil)	114	3	117
,, (Mechanical)	68	—	68
,, (Electrical)	63	—	63

	Men	Women	Total
F. Text. Eng.	15	—	15
F. Text. Tech.	13	—	13
S.E. (New) Civil	75	1	76
,, Mechanical	70	—	70
,, Electrical	59	—	59
S. Text. Eng. (New)	17	—	17
S. E. (Old) Civil	121	—	121
,, Mechanical	81	—	81
,, Electrical	68	—	68
S. Text. Eng. (Old)	11	—	11
,, Tech. (Old)	8	—	8
B.E. (Civil)	62	—	62
,, Mechanical	62	—	62
,, Electrical	24	—	24
T. Text. Eng.	16	—	16
T. Text. Tech.	6	—	6
B. Text. Eng.	11	—	11
B. Text. Tech.	1	—	1
B. Arch. I Yr.	43	2	45
,, II Yr.	42	1	43
,, III Yr.	34	—	34
,, IV Yr.	36	2	38
,, V Yr.	35	—	35
Grand Total ;	1,155	9	1,164
Diploma Classes			
Final Year (Civil)	70	—	70
(Mech.)	46	—	46
(Elec.)	44	—	44
Dip. Text. Chem. I Yr.	34	—	34
II Yr.	23	—	23
III Yr.	63	—	63
Text. Tech. Prep.	36	—	36
I Yr.	36	—	36
II Yr.	33	—	33
III Yr. (Final) Yr.	33	—	33
Total :	418	—	418

Certificate Classes	Men	Women	Total
Turner and Fitter I Yr.	55	—	55
II Yr.	25	—	25
Wireman	31	—	31
Dyeing I Yr.	12	—	12
II Yr.	15	—	15
Weaving I Yr.	11	—	11
II Yr.	6	—	6
Total :	155	—	155
<i>Summary</i>			
Post-graduate course	10	—	10
Degree courses	1,155	9	1,164
Diploma courses	418	—	418
Certificate courses	155	—	155
Grand Total :	1,738	9	1,747

6. Staff

During the year, the staff of the Faculty consisted of 9 Professors, 12 Readers, 44 Lecturers, 2 Part-time Lecturers, 50 Demonstrators, 106 Class III and 80 Class IV Servants.

7. Library and Reading Room

(1) Apart from recurring grant from the University, the Faculty received Rs. 15,000/- from the University Grants Commission for books. It also received Rs. 6,000/- and Rs. 1,500/- respectively for books and periodicals under the Expansion Scheme, and received books worth Rs. 7,800/- from the India Wheat Loan Fund.

(2) The Library and the Reading Room are ordinarily kept open for purposes of study between 11-00 a.m. to 5-30 p.m. Owing to the great demand from the students they were kept open on all working days from 10-00 a.m. to 10-00 p.m. From March to May, 1959, they were kept open on holidays and Sundays also.

The following are the figures showing average daily attendance and circulation of books :

S.No.	Particulars	Number
1	Average number of students making use of the Library and Reading Room daily	150

S.No.	Particulars	Number
2	Average number of teachers making use of the Library and Reading Room daily	15
3	Total number of books issued to students during the year	7,500
4	Total number of books issued to teachers during the year	1,000

The following figures show the stock and the expenditure on the maintenance of the Library and the Reading Room during the year 1958-59 :

S.No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of journals) as on 1-7-1958	12,767	1,90,733.00
2.	Books written off during the year	2	22.25
3.	*Books added during the year	1,353	34,150.87
4.	Books as on 30-6-1959	14,118	2,24,861.61
5.	Journals subscribed during the year	83	3,700.00
6.	Amount spent on binding during the year	—	690.24
7.	Total amount spent for Library and Reading Room during the year	—	38,541.11

*Note :—Cost of periodicals, previously subscribed but bound and accessioned this year is included in item No. 3.

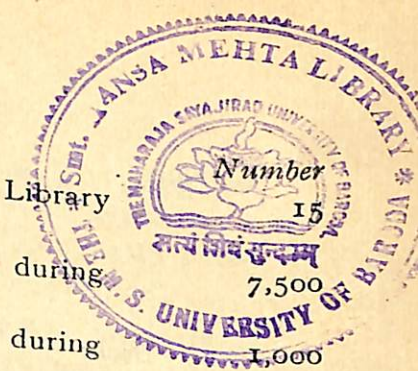
8. Museum, laboratories, studios, workshops, etc.

Item	Total cost of equipment as on 1-7-1958	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 30-6-1959
	Rs.	Rs.	Rs.	Rs.
Laboratories, Workshops and Studios	31,84,138.79	—	79,414.86	32,63,583.65

9. Publications of the members of the staff

(1) Articles or papers

Name	Title	Name of the Journal wherein published with month of publication
Dr. J. S. Dave and Shri A. M. Talati	(i) Estimation of Palladium by L. B. Dioximino Acetoacetanilide	Journal of Indian Chemical Society, March, 1959



Name	Title	Name of the Journal wherein published with month of publication
(ii) Estimation of Nickel by L. B. Diximino Acetoacetanilide		Journal of Indian Chemical Society, May, 1959
(2) Books		
Name	Title	Name of the Publisher with month of publication
(i) Prof. C. H. Khadilkar,	(i) A text-book on Bridge Construction	Acharya Book Depot, Baroda, January, 1959
	(ii) A text-book on Water Supply	Viswakarma Publish- ers, Indore, October, 1958
(ii) Shri N. A. Shah,	(i) A text-book of Water Supply Engineering	Acharya Book Depot, August, 1958
	(ii) Higher Surveying	By the Author, Janu- ary, 1959

10. Literary, Cultural and Other Activities

(1) The Literary Association of the Faculty arranged lectures and talks by prominent persons on various subjects of general and professional interest for the benefit of the students and the staff. It also arranged a number of debates. Some students participated in various debates and Art exhibitions and won prizes.

(2) Students' Chapter:

The Institution of Engineers (India) started functioning during the academic year with 301 students as members of the Chapter.

Under the auspices of the Chapter and the Literary Association the following lectures were delivered:

Date	Speaker	Subject
(i) 23-8-1958	Shri B. B. Joshi	His impressions of life in U. K. and the continent as gathered during his recent tour.
(ii) 5-2-1959 and 6-2-1959	Professor B. B. Sarkar	Electric Traction.
(iii) 11-9-1959	Shri R. B. Desai	My experiences abroad.

The Chapter also organised industrial visits to (i) Alembic Glass Factory, Jyoti Ltd., Baroda and a tour to Sabarmati Power House, Ahmedabad, during the year.

(3) Generally students of the final year Degree and Diploma Classes took part in Seminars. Students prepared and read papers on a selected theme relating to the subjects of their study and participated actively in the discussions. 52 Seminars were held during the year.

(4) Every year a farewell party to the outgoing students is arranged by the staff of the Faculty. General instructions and advice regarding their professional career are given to them by the Vice-Chancellor, the Dean and the staff members and some specialists outside the University.

11. Co-curricular Activities

(i) Excursions and tours

Students of B.E., S.E., B.Text. Eng., T. Text. Eng., T. Text. Tech., S. Text. Eng., S. Text. Tech., Architecture Degree Classes and all the final year Diploma Classes and M.E. (P.H.) students were sent out on an educational tour of visits to places of particular interest connected with their branch of study. The period in each case extending upto about two weeks.

(ii) Social

The Annual Faculty Day was celebrated on the 19th February, 1959 under the Presidentship of Sheth Shri Lalchand Hirachand, the well-known industrialist and President, Indian Merchants' Chamber, Bombay.

(iii) Sports

(a) Inter-Faculty Tournaments:

In the Inter-Faculty Tournaments held during the year, students of the Faculty participated in Cricket, Tennis and Badminton. The Faculty participated in all the games and won Professor A. R. Wadia Trophy in the Inter-Faculty Badminton Tournament.

(b) Inter-University Tournament:

Some students of the Faculty were selected to participate in the following Inter-University tournaments and competitions: Foot-Ball, Volley Ball, Table Tennis, Badminton, Kabadi, Kho-kho, Hockey, Cricket, Boxing, Swimming, Wrestling, etc.

(c) Annual Sports:

The students and members of the staff participated in many events in the Annual Sports held during the University Week. 15 students and 6 staff members won the prizes.

(d) Exhibition of Educational Films :

This year the Faculty has a stock of 16 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 different organisations; 6 film shows were held during the year at the Faculty and 23 films were shown to the students and the staff.

(e) Publication of Faculty Magazine :

The Faculty Magazine was published during the session 1958-59.

(f) Dramatic and Music Association :

This year the Association participated in the Inter-Faculty Competition held by the University Week Celebration Committee. The Association took part in (1) Drama, (2) Group Song and (3) Group Dance and won the third prize in Group Dance.

(g) Photographic Association :

The Photographic Association has attracted many students who are either beginners or amateur photographers inspite of the shortage of Photographic materials in the market.

(h) Co-operative Stores Society :

Due to sudden fluctuations in the market, the store did not take the risk of going in for more materials. The materials were taken from different local merchants. The working of the store was satisfactory. The total sale during the year was Rs. 6,981.33 nP. The profit made over was Rs. 987.41nP.

12. Tutorials and Class Work

Attendance at the terminal examination, tutorial periods and tests is compulsory. The system of giving credit for work done during the term is followed. Regular records of the class work and practical tests of the students are maintained. In deciding the Annual Results of all examinations whether conducted by the Faculty or University, the marks obtained by the candidates in their terminal examinations, tutorials, class work and tests are taken into account as below :

Theoretical subjects : 30% of the maximum marks for the examination in the subject (20% for class tutorials records etc., and 10% to be awarded for a viva-voce etc.) for degree classes while 20% of the maximum marks for examination in that subject for diploma classes.

Practical subjects : 25% of the maximum marks for the examination in that subject for diploma classes.

This does not apply in the case of subjects where separate termwork marks have been assigned.

13. Other important events

The following are the distinguished Visitors to the Faculty :

- (1) The International Students Delegation
- (2) Shrimati Violet Alva, Deputy Minister for Home Affairs, Government of India, New Delhi.
- (3) Shri Lal Bahadur Shastri, Union Minister for Commerce, Government of India, New Delhi.
- (4) Mr. F. F. Hill, Mr. G. F. Gant, Dr. Ensminger and Dr. E. Woodman, Ford Foundation Experts
- (5) Col. B. H. Zaidi, Vice-Chancellor, Muslim University, Aligarh.
- (6) Sheth Shri Lalchand Hirachand, well-known Industrialist and President, Indian Merchants' Chamber, Bombay.

CHAPTER XIV—FACULTY OF FINE ARTS

1. Brief History

The Faculty of Fine Arts is one of the new Faculties and the University had to build the whole structure from the very foundations. Early in May, 1949 an organiser was appointed to make preliminary arrangements. He was deputed to visit some centres of Fine Arts at Delhi, Nagpur, Banaras, Patna, Shantiniketan and Calcutta. By May, 1950 the Syllabi and the scheme of examinations for the degree and diploma courses were approved, necessary books, furniture and equipments were bought and some staff was also appointed. The Faculty started working from the 3rd July, 1950. The post-graduate courses in the Faculty were started from June, 1954.

2. Buildings

The two-storeyed new block accommodates (1) Dean's Office, (2) Photography Section, (3) Lithography Section, (4) Printing Section, (5) Wood-carving Section, on the ground floor and (6) Staff Room, (7) Eight individual rooms for Professors and Readers and class-rooms for post-graduate and post-diploma students in Painting, Sculpture, Applied Arts, Art Education and Art Criticism, (8) Reading Room and Library on the first floor.

Painting Studio, Applied Arts Studio, Sculpture Studio, Cellar for Pottery and Ceramics store, Bronze-casting Shed, Stone Carving shed, Process and Block Making Workshops have been newly built.

The old buildings accommodate (1) Administrative Office, (2) Four Lecture Rooms, (3) Art-History Department, (4) Store and Record Room and (5) Girls' Common Room.

3. Courses of Studies

The Faculty offers the following courses :—

- (1) Post-graduate degree courses in (a) Painting, (b) Sculpture, (c) Applied Arts, (d) Art Education and (e) Art Criticism.
- (2) Post-graduate diploma course in Museology
- (3) Post diploma specialization courses in (a) Painting, (b) Sculpture and (c) Applied Arts

- (4) Degree courses in (a) Painting, (b) Sculpture and (c) Applied Arts
- (5) Diploma courses in (a) Painting, (b) Sculpture, (c) Applied Arts and (d) Textile Design
- (6) Certificate courses in (a) Wood crafts, (b) Lithography, (c) Photography, (d) Process and Block Making, (e) Bronze-casting and (f) Pottery and Ceramics.

4. General Education

The General Education periods were taken during the year which were attended by almost all the First year and Second year degree course students of the Faculty.

5. Number of Students

The number of students enrolled in various classes at the commencement of the year 1958-59 was as under :

Class	Men	Women	Total
<i>Post-graduate Degree</i>			
Junior	3	—	3
Senior	1	3	4
<i>Post-graduate Diploma</i>			
Junior	4	1	5
Senior	2	1	3
<i>Degree</i>			
1st year	20	8	28
2nd year	8	—	8
3rd year	18	2	20
4th year	9	1	10
<i>Post-Diploma</i>			
Junior	1	—	1
Senior	1	—	1
<i>Diploma</i>			
1st year	14	3	17
2nd year	5	1	6
3rd year	8	—	8
4th year	5	—	5
<i>Certificate</i>			
1st year	12	3	15
2nd year	1	—	1
Total :			135

6. Staff

During the year, the staff consisted of 3 Professors, 1 Reader, 13 Lecturers, 1 Head of the Department of Museology, 2 Honorary Professors, 1 Part-time Instructor, 2 Demonstrators, 2 Tutors, 1 Painter, 1 Technician, 1 Texi-dermist, 6 Class III and 14 Class IV Servants.

7 Library and Reading Room

S.No.	Particulars	Number
1.	Average number of students making use of the Library and Reading Room daily	45
2.	Average number of teachers making use of the Library and Reading Room daily	20
3.	Total number of books issued to students during the year	520
4.	Total number of books issued to teachers during the year	800

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

S.No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of Journals) on 1-7-1958	2,727	36,424.13
2.	Books written off during the year	—	—
3.	Books and plates added during the year	365	6,974.77
4.	Books and plates as on 30-6-1959	3,092	43,398.90
5.	Journals subscribed during the year	32	948.89
6.	Amount spent on binding during the year	—	415.31
7.	Total amount spent for the Library and Reading Room during the year	—	8,338.97

8. Museum, Laboratories, Studios, Workshops, etc.

Sr. No.	Item	Cost of equipment as on 1-7-1958	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1	Studios, Workshops (Painting, Sculpture, Applied Arts, etc.)	84,093-11	—	10,051-02	94,144-13
2	Museology Department	2,924-17	—	1,628-74	4,552-91
	Total:	87,017-28		11,679-76	98,697-04

9. Literary, Cultural and Other Activities

The following are some of the lectures by experts arranged in the Faculty during the year:

S.No.	Name	No. of lectures	Subject
1	Shri K. H. Ara, Bombay	3	Demonstration in Painting
2	Shri R. P. Kamat, Bombay	3	Life Study
3	Shri D. M. Dhadwal, Bombay	3	Photo-Mechanical Process
4	Shri P. G. Sirur, Bombay	3	Illustration
5	Dr. L. P. Witteborg, Museologist, New York	2	(a) Living Museums (b) Display in American Museums of Natural History
6	Dr. A. A. Aiyappan, Orissa	2	(a) Collection, Preservation and Display of Anthropological Material (b) Teaching of Anthropology through the Museum
7	Shri T. R. Gairola, New Delhi	3	(a) Preservation of Textiles (b) Cleaning and Preservation of old Miniature Paintings and Manuscripts (c) Latest Methods employed in the preservation of Museum materials.
8	Dr. S. T. Satyamurti, Madras	2	(a) Care and Preservation of Museum objects (b) Care and Preservation of Biological Material in a Museum
9	Shri J. Gabriel, Prince of Wales Museum, Bombay	5	Preservation of Mammals and Birds
10	Dr. H. Goetz	4	(a) Approach to Indian Art (b) Growth of Indian Art (c) Classical Indian Art and its aftermath

S.No.	Name	No. of lectures	Subject
			(d) Indian Art from the coming of the Muslims upto the present
11	Shri Ambubhai Purani	1	Art and Life
12	Shri Mohan Khokar	1	My impressions of Art and Life in the U.S.S.R. and East Europe

10. Co-curricular Activities

(1) The Faculty arranged two study tours, one to Delhi, Agra, etc. and the other to Khajuraho. The Museology Department also organised a study tour to Madras, Madurai, etc. with a view to acquaint the students with the problems and conditions of Indian museums.

(2) The Faculty organised 5 exhibitions, participated in the 'Indian Exhibition, 1958' in New Delhi, arranged film shows and published the Faculty Magazine also.

11. Other Important Events

Distinguished Visitors :

(a) Dr. S. Bhattacharya, Education Officer, University Grants Commission visited the Faculty on the 21st November, 1958.

(b) The following persons paid visit to the department of Museology on the date mentioned against each :

	Name	Date of visit
1.	The Prime Minister Pandit Jawaharlal Nehru	2-11-1958
2.	Shri Y. B. Chavan, Chief Minister of Bombay	2-11-1958
3.	Dr. Jivraj N. Mehta, Minister for Finance, State of Bombay	2-11-1958
4.	Shri Bakshi Gulam Mohommad, Prime Minister of Jammu and Kashmir	4-11-1958
5.	Shri Morarji Desai, Union Minister for Finance	5-11-1958
6.	Dr. A. Ghosh, Director General of Archæology in India	21-11-1958
7.	Dr. Lothar P. Witteborg, Museologist from American Museum of Natural History, New York (U.S.A.)	3-12-1958
8.	Shri Hitendra Desai, Minister for Education, Bombay State	11-12-1958

	Name	Date of visit
9.	Col. B. H. Zaidi, Vice-Chancellor, Muslim University, Aligarh	18-2-1959
10.	Sir Mortimer Wheeler, Secretary, British Academy and Former Director of Archæology in India	3-3-1959
11.	Shrimati Tarkeswari Sinha, Deputy Minister for Finance, Government of India	5-4-1959
12.	Dr. M. S. Sheppard, Director of Museum, Federation of Malaya, Kuala Lumpur	15-4-1959

(2) Prizes won

By students :

(a) Shri Shanti Dave, non-collegiate student in the department of Painting is awarded a Gold Medal by the Academy of Fine Arts, Calcutta and he is also awarded a cash prize of Rs. 1,000/- at the 4th Bombay State Exhibition, Poona, 1959.

(b) Shri Bhupendra Manubhai Desai, a student of the 4th Year Diploma in Painting and Shri Vinod Chandulal Shah, a student of the 4th Year Degree in Painting, Kumari Kishori Kaul, a student of the 1st Year Degree and Shri Jyoti Bhatt, non-collegiate student in Painting Department are awarded cash prizes at the 68th Annual Exhibition of the Bombay Art Society, 1958.

(c) Kumari Kishori Kaul, a student of the 1st Year Degree and Shri Jamubhai Palabhai Choudhari, a student of the 3rd Year Degree (Painting) are awarded cash prizes of Rs. 1,500/- and Rs. 500/- respectively at the 4th Bombay State Exhibition of Art, 1959.

(d) Shri R. R. Kaneria, a student of the 4th Year Sculpture was awarded Rs. 1,000/- as Lalit Kala Academy's award for Sculpture. He also shared the second prize of Rs. 500/- at the Bombay State Art Exhibition, 1959.

(e) Shri Narendra M. Patel, post-graduate student of Sculpture shared the second prize of Rs. 500/- at the Bombay State Art Exhibition, 1959.

(f) Shri J. F. Jamadar and Shri M. G. Pancholi, students of Photography are awarded certificates at the Inter-University competition in Photography held at Allahabad University.

By Staff :

(a) Shri M. D. Pandya, Lecturer in Stone Carving won the following prizes :

1. Shared the first prize in Sculpture of Rs. 1,250/- at the Bombay State Arts Exhibition, 1959
2. A Gold Medal at the Indian Sculptures Association Exhibition, New Delhi, 1959
3. Cash prize of Rs. 75/- at the Bombay Arts Society's Art Exhibition, 1959

(b) Shri G. C. Bhatt, Tutor in Bronze-casting secured the following prizes :

1. Shared the first prize of Rs. 150/- at the All India Fine Arts and Crafts Society's Exhibition
2. A cash prize of Rs. 100/- at the Indian Sculptures' Association Annual Exhibition

CHAPTER XV—FACULTY OF HOME SCIENCE

1. Brief History

The former Baroda State Government created on the 17th December, 1948 a Women's Educational Trust Fund to establish a Home Science College in Baroda. The Women's Educational Trust Fund appointed from May, 1949, an organiser for the College. The University took over the services of the organiser along with the funds and started a Faculty of Home Science on the 3rd July, 1950 in one of the old buildings of the University with 40 students on its roll, studying for the degree of B.Sc. (Home). The Faculty provided for instructions for the Master's degree in Child Development and in Foods and Nutrition from June, 1955.

The Chetan Balwadi—a Nursery School which serves as a Practising School for the students of the Faculty—was started in July, 1949 with 50 children on its roll. In November, 1957 the Faculty started the new section of Kindergarten in Chetan Balwadi. The Home Science Wing, which was started from the 18th June, 1956 is attached to the Faculty and also serves as a Practising Centre for the students of the Faculty.

2. Buildings

The new building completed at the cost of Rs. 6.57 lakhs was occupied by the Faculty in June, 1952. It provides adequate class-rooms, laboratories, workshops, conference and seminar rooms, library and reading room and administrative office. In addition, it has a cafeteria and an auditorium with sitting arrangement for 300 persons. Chetan Balwadi, a nursery school attached to the Faculty, is accommodated in the west wing on the ground floor. The Maharani Shantadevi Home Management House is constructed in the compound of the Faculty at a cost of Rs. 64,000. In 1957, the new department of Clothing and Textiles, and class-rooms for post-graduate students were constructed over the west wing at a cost of Rs. 54,500, bringing the total cost of all the buildings of the Faculty to Rs. 8,25,500/-.

3. Courses of Studies

(1) Post-graduate courses

Master's degree in Home Science with a Major in either

- (a) Foods and Nutrition, or
- (b) Child Development

(2) Degree courses

- Bachelor's degree in Home Science
- Foods and Nutrition
 - Child Development
 - Economics of Household and Home Management
 - Home Science Education and Extension
 - Clothing and Textiles

The Faculty provides a four year course leading to the degree of B.Sc. (Home) and a further two year course leading to the degree of M.Sc. (Home). The revised syllabus was introduced during the year 1957-58. In the new course of B.Sc. (Home) the first three years are devoted to a core course, which acquaints all the students with the different phases of Home Science. In the fourth year the students have to select one out of the above five fields of specialisation.

4. General Education

An introductory Course in Humanities, Science and Medicine is given to the second and third year students.

5. Number of students

The number of students enrolled in the various classes at the commencement of the year 1958-59 was as follows:

(a) Post-graduate Degree	Number
Junior	4
Senior	3
(b) Degree	
1st year	105
2nd year	50 plus 1 non-collegiate
3rd year	51
4th year	30
Total	243 plus 1 non-collegiate

6. Staff

The staff of the Faculty consisted of 1 Professor, 1 Reader, 10 Lecturers, 7 Demonstrators, 1 Tutor, 1 Instructor, 2 Part-time Lecturers, 9 Class III and 15 Class IV servants. The Faculty continued to receive the help of the staff of the other Faculties for teaching Languages, Economics, Sociology, Chemistry, Physics, Biology, Statistics, Psychology, Anatomy, Physiology, Bacteriology, Music and Dancing.

7. Library and Reading Room

The Faculty has a well-equipped library and reading room and subscribes to a number of professional journals and periodicals. The library remained open from 8-00 a.m. to 6-00 p.m. on all working days. The following figures show the average daily attendance and circulation of books:

S.No.	Particulars	Number
1.	Average number of students making use of the library and reading room daily	180
2.	Average number of teachers making use of library and reading room daily	20
3.	Total number of books issued to students during the year	3,500
4.	Total number of books issued to teachers during the year	500

The following figures show the stock and the expenditure on the maintenance of the library and the reading room during the year 1958-59:

S.No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of Journals) as on 1-7-1958	4,913	37,447=52
2.	Books written off during the year	Nil	Nil
3.	Books added during the year	938	8,065=00
4.	Books as on 30-6-1959	5,851	45,512=52
5.	Journals subscribed during the year	38	848=49
6.	Amount spent on binding during the year	Nil	263=68
7.	Total amount spent for the library and the reading room during the year	Nil	9,177=17

8. Museum, Laboratories, Workshop, etc.

The Faculty Museum acquired show-cases. The following table shows the total cost of equipment in the museum, laboratories and workshops:

S. No.	Item	Cost of equipment as on 30-6-1958	Cost of equipment, etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment etc. as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1	Museum, Laboratories and Workshops	1,94,644-64	Nil	21,444-96	2,16,089-60

9. Literary, Cultural and Other Activities

(1) The department of Home Science Education and Extension arranged several lectures and demonstrations on various topics for different economic groups.

(2) Under the guidance of the Head of the Child Development Department, the students published three booklets in Gujarati.

(3) Some members of the staff were sent as delegates to various Conferences where they read papers and participated in discussions, etc.

10. Co-curricular Activities

(1) All the departments of the Faculty arranged tours to different places of interest and studies.

(2) The students of the Faculty participated in Inter-Faculty debates, games, group-song and group-dance and also in the Youth Festival.

(3) The students and the staff celebrated annual social functions as well as the Annual Faculty Day.

(4) The Child Development Department organised social gatherings, meetings and picnics and arranged lectures for the members of the Parent-Teacher Association.

(5) The department of Home Science Education and Extension arranged film shows every Friday.

11. Tutorials and Class Work

The Faculty follows a system of grade-credit to assess and evaluate the work of its students in all theory and practical classes. Every teacher maintains a diary or a class record for his or her subjects in respect of each student taking the course. The students' performances during of term in the subjects in areas of practical tests, regular assignments, papers, reports, class work and special projects are evaluated on a four point scale and the grades earned by the student in each area of the sessional work are entered in her class record. All these grades are averaged and count as half the total grade for the term. The advisory system adopted by the Faculty has helped the students with their scholastic and personal problems.

12. Other Important Events

(1) The following were some of the distinguished visitors to the Faculty during the year:

1. Shri Bakshi Gulam Mohammad,
Prime Minister of Jammu and Kashmir

2. Shrimati Violet Alva,
Deputy Home Minister, Government of India
3. Shri Hitendra Desai,
Minister for Education, Government of Bombay
4. Col. Barkat Narayan
5. International Students' Delegation

(2) The following distinguished visitors were invited for lunch in the cafeteria of the Faculty:

1. Dr. C. D. Deshmukh,
Chairman, University Grants Commission
2. Mr. F. H. Hill,
Vice-President and other Officers of the Ford Foundation
3. Col. B. H. Zaidi,
Vice-Chancellor and other Officers of Aligarh Muslim University

13. Chetan Balwadi

The Chetan Balwadi which serves as a practising school for the students of the Faculty was started in July, 1949 with 50 children on its roll. The department of Child Development conducts this nursery school for children between the ages of 2 and 5. It is located on the ground floor in the west wing of the Faculty and is furnished with suitable furniture, equipment, apparatus, etc. for the education of children of the above age group. The Head of the Child Development Department works as the Superintendent of this school. In the year 1957-58 a new section of Kindergarten class for 25 children was started and an honorary lecturer was appointed to organise the Kindergarten class between 1-00 p. m. and 4-00 p. m. The number of children in the school and the kindergarten was as under:

	Boys	Girls
(i) Chetan Balwadi	30	30
(ii) Kindergarten	14	11
Total	44	41

Admissions were granted on the basis of children's sex, age, socio-economic status, language and religion. The school serves as a laboratory for the department of Child Development. A new system of maintaining individual cumulative record forms for each child is followed. A medical examination of all the children was conducted and a part-time social worker did the follow up work, on the basis of the doctor's recommendations.

14. Home Science Wing

The Ministry of Agriculture, Government of India is conducting an intensive programme of rural development in the country through the National Extension Service Blocks for raising the standards of living, health and happiness of the rural population. In this programme the Ministry requires a large number of Gram Sevikas *i.e.* women village level workers, who are well-equipped to work in villages, and to help the women there to raise the standard of living in rural community. With this end in view, the Ministry decided to start 25 centres in the country to train up women workers. One out of the two centres, offered to the State of Bombay, is run on their behalf by the University as 'Home Science Wing' in the University estate of Tara Nivas. Necessary additions and alterations in the existing buildings were made at a cost of over Rs. 50,000/- for providing a training hall with class-rooms, laboratory, administrative office and accommodation for the teachers and the trainees. The Wing started functioning from the 18th June, 1956. It had provision for 20 trainees but in the first batch only six women came forward to join the training. The second batch had 18 trainees and in the third batch which started in November, 1958, the number of trainees was 20. The staff consisted of one Chief Instructress, two Assistant Instructresses, two Class III and two Class IV servants during the year. The course is of one year's duration and consists of subjects like Family, Foods and Nutrition, Clothing, Mother and Child Care, Housing and House Management, Health and Sanitation, Handicrafts and Cottage Industries, Agriculture, Kitchen, Garden, Co-operation and Home Science Extension. The subjects are taught in theory and practicals in class and practised in daily living in hostels. The Wing arranged two cultural programmes, study tours and village camps in 3 blocks and also celebrated the 15th August, 1958 and participated in the 'Faculty Day Programme' of the Faculty of Home Science.

CHAPTER XVI—FACULTY OF SOCIAL WORK

1. Brief History

The Baroda School of Social Work was established in March, 1950 with the aim to train professional social workers on the lines of scientific knowledge available in the field at post-graduate level. It started functioning as on the 20th July, 1950 and was a part of the Faculty of Arts. In March, 1951 the school was recognised as a separate Faculty of Social Work, and the degree of Master in Social Work (M.S.W.) was instituted. In 1950 the Rural Work Centre at Atladra and the Camp Road Community Welfare Centre were established. The Mental Hygiene and Psychiatric Clinic was started in July, 1952 in Shri Sayaji General Hospital with a view to serve the public need and also to offer field work facilities for the students of the Faculty. The Social Education Organizers' Training Centre was started in January, 1955 under the Faculty at Samiala.

2. Building

The Faculty was housed in an old residential bungalow in the Campus. The University Grants Commission and the Government of Bombay have approved a grant of Rs. 3,50,000/- for a new building of the Faculty. The construction work of the new building which was started last year, is nearing completion.

3. Courses of Study

The Faculty provides instructions for a two year post-graduate course leading to the degree of Master of Social Work. The curriculum consists of class-room work, field work and research.

4. Field Work, Rural Work, Study Tours, etc.

(1) Field Work :

The main emphasis continues to be laid on practical training and the application of academic knowledge to day-to-day life situations. Since 1956-57, junior students were given group supervision in the first term, and from second term the students continued to be supervised individually. Agencies co-operating with the Faculty in offering valuable practical training to the students are—Camp Road Community Welfare Centre, Baroda Certified School, Remand Home, Baroda Central Prison, The Government Blind School, Shrimati Chinnabai Industrial Home for Wo-

men, Shrimati Jamnabai Hospital, The Padmavati Sanatorium Anti-T.B. Clinic, Shri Sayaji General Hospital, The Mental Hygiene and Psychiatric Clinic, The Mental Hospital, The Government Model Farm, The Atladra Rural Work Centre, The Bil Rural Work Centre, The Alembic Chemical Works Co. Ltd., Shree Ambica Mills Ltd., The Baroda Spinning & Weaving Co. Ltd., The Jyoti Works Ltd., The Sarabhai Chemicals Co., Shri Dinesh Woollen Mills Ltd., Shri Sayaji Mills Ltd., Shri Yamuna Mills Ltd., The New India Industries Ltd., The Railway Staff College and The Government Labour Welfare Centre.

(2) *Rural Work :*

The Rural Work Department of the Faculty carried on and expanded its rural development activities in Atladra and Bil villages during the year. These villages continue to provide field work training to students in various techniques of social work and also functioned as community centres to provide services to all human beings. The number of students placed in these villages during the last year varied from six to seven students. The main activities that were carried out under the programme were medical, recreational and social education activities among children and adults of both the sexes.

The medical programme consisting of health education and family and child welfare work was carried out both in Atladra and Bil under the guidance of one full-time health visitor. The health visitor with the help of students continued the milk distribution programme for children in Atladra and Bil in co-operation with Bilwada Community and Panchayat of the village. The Faculty provides milk powder. The milk was distributed thrice a week by a committee of village women under the guidance of a health visitor. On an average about 45 to 50 children per day in each village took advantage of this programme. A baby show, indoor and outdoor games, dramas, folk film shows, excursions, exhibitions, talks, etc. were also arranged in these villages.

The Rural Work Department is encouraging the villagers to take more and more responsibility in welfare programmes of the villages. In Bil they were helped to take advantage of Diamond Jubilee Trust Fund for their water works scheme. The Trust has given Rs. 4,000/- for this purpose. The remaining money (village share) has been collected and deposited in the Government Treasury.

(3) *Mental Hygiene and Psychiatric Clinic :*

During the year, the clinic offered its services to 325 new patients, as well as to 146 old patients carried over from previous year. With the growing awareness in the Community about the services available in the clinic, more and more patients who are in the early stage of emotional illnesses approach the clinic for help. This means that they can be reached and so can take help. During the year 16 University students approached the clinic mostly on their own for the treatment of various emotional disturbances.

Two students of the Faculty of Social Work were placed for training in Psychiatric Social Work. Medical students continue to be assigned to the clinic in batches of 8 to 10 students.

Since January, 1959, another Psychiatric Social Worker was employed increasing the strength of the full-time members of the staff to five—one Clinical Psychologist, three Psychiatric Social Workers and a clerk. The Senior Social Worker supervised both the workers and the students during their field work. The Clinical Psychologist continued to work on projective techniques. He completed the initial report on 'Identifying Social Work Potentials through Projective Tests' and it will be published shortly.

The Clinic staff was active with community work. The senior worker gave talks to various parents' group in Baroda and also in a nearby village and discussed with them Children's problems.

This year the Jean Norman and Howard Trust Fund of Australia shared 25% of the financial responsibility and the other 75% was contributed by the M. S. University of Baroda. During the coming year the clinic will be completely supported by the M. S. University of Baroda, as per the agreement with the Trust.

(4) *Camp Road Community Welfare Centre :*

The Centre continues to provide field work training to students in various techniques of social work and also functions as a Community Centre to provide services to men, women and children.

When the UNAC Grant was made available to the Faculty it was decided to set-up a programme including recreation, medical assistance and subsidiary diet to be conducted by the students under training. The

response of the larger community to these specialised needs has been most gratifying.

The increasing interest of the community can be seen by the increase in attendance in regular activities in the Centre from 30 to 150.

Students conducting Group Activity often handled individual cases of adjustment problems; however, further need to give intensive help to children at school was strongly felt. Opportunities to provide case work practice by the agency were explored and the two neighbouring schools in the community—'Hill Memorial High School' and 'Fatehganj Misra Shala' gave full cooperation. Since January, 1958, "School Social Work" has been introduced.

Through regular contacts and interpretation of the programme of the centre, many community leaders got interested in the Centre's activities. Besides, the community leaders on their own realised the need for having a regular association to work towards the welfare of the total community. Thus 'Fateh Ganj Seva Samaj' was established in 1958 and the Faculty field work supervisor for the Centre has been invited by the executive committee to be an Honorary Advisory member. Annual medical check up of the members of the agency is a regular feature; this was undertaken by the agency with the cooperation of the 'Fateh Ganj Seva Samaj' and the youth of the Community by arranging a 'Baby Show' on the 27th March, 1958. 70 babies were examined out of which six babies were awarded prizes donated by the Indian Red Cross Society and the Samaj.

In short, the Centre organised baby shows, film shows, medical check up of children, cultural programmes, etc. and developed its activities to provide training opportunities in all the techniques and fields of social work.

(5) Study Tour and Camps:

A Camp of 24 Junior students and staff members was organised at Mount Abu in April, 1959.

5. Number of Students

The number of students enrolled in the two classes at the commencement of the year 1958-59 was as under:

Class	Men	Women	Total
Junior Class	23	8	31
Senior Class	26	8	34
Total:	49	16	65

6. Staff

(a) During the year, the staff of the Faculty consisted of 2 Readers, 7 Lecturers, 7 Class III and 7 Class IV servants.

(b) The staff in the Mental Hygiene and psychiatric Clinic consisted of 1 Clinical Psychologist, 3 Social Workers and 1 Class III servant.

(c) The staff in the Social Education Organisers' Training Centre, Samiala consisted of 1 Reader, 3 Lecturers, 1 Art Instructor, 7 Class III and 10 Class IV servants.

7. Library and Reading Room

The Faculty has a well equipped library with over 4,000 volumes on various fields of social work and allied subjects. The Faculty also subscribes to a large number of professional journals and periodicals. The following are the figures showing average daily attendance and circulation of books during the year 1958-1959:

S.No.	Particulars	Number
1.	Average number of students making use of the Library and the Reading Room daily	50
2.	Average number of teachers making use of the Reading Room daily	10
3.	Total number of books issued to students during the year	7,700
4.	Total number of books issued to teachers during the year	2,570

The following figures show the stock and the expenditure on the maintenance of Library and Reading Room during the year 1958-59:

S.No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of Journals) as on 1-7-1958	3,776	25,178.50
2.	Books written off during the year	Nil	—
3.	Books added during the year	366	5,543.32
4.	Books as on 30-6-1959	4,142	30,721.82
5.	Journals subscribed during the year	48	898.92
6.	Amount spent on binding during the year	—	200.00
7.	Total amount spent for Library and Reading Room during the year	—	6,642.24

8. Publications by members of the staff

The following papers of the members of the staff were published during 1958-59:

S. No.	Name	Title	Where published
1.	Shrimati I. S. Tayal	Social Work Training in Asia	Social Work Review, June, 1959
2.	Shrimati P. Bhatt	Juvenile Court and its functions	Devna Didhelan
3.	Shri D. F. Pereira	(i) Selection of Executives (ii) Identifying Social Work Potentials	Journal of M. S. University of Baroda Faculty of Social Work, M. S. University of Baroda, 1959
4.	Miss H. Pinkus	Case Records for teaching purpose	Faculty of Social Work, 1959
5.	A Joint Project by Staff members	Seminar in Supervision	Faculty of Social Work, 1958

9. Literary, Cultural and Other Activities

Staff members participated in the wider field of social work. In addition to their varied responsibilities and duties at the Faculty, they took active interest in the development of the field at large. They also participated in various seminars, National Conferences as members of committees and bodies as well as in the Community by giving talks on radio and in Civil Clubs. Some members of the staff worked in different capacities on various bodies in and outside the University, attended seminars, conferences and participated in discussions, etc. during the year.

10. Co-curricular Activities

(1) Study Tour :

The staff members are provided with opportunity to visit sister institutions for keeping in touch with development in the field as well as to promote closer contact and public relations.

(2) Participation on Various Committees :

Shrimati Indra S. Tayal, Dean of the Faculty, Miss Olive Swoboda, Consultant in Mental Hygiene and Psychiatric Clinic and Shrimati Perviz M. Bhatt, Reader in Social Work participated in various activities and worked in different capacities on various bodies in and outside the University.

(3) Students' Association and Students' Emergency Loan Fund :

Besides belonging to the University Union, the students of the Faculty run an Association for educational and recreational purposes. Over the past six years, they have built up a loan fund with a view to rendering assistance to the needy students of the Faculty.

(4) Socials :

Under the auspices of the Students' Association, outings were arranged to Samiala and Vasad. The students of the Faculty were hosts to students from Gujarat Vidyapith, Ahmedabad in January, 1959.

(5) Sports :

The students organized annual sports and conducted it with enthusiasm. The students won first prize in University Sports in 800 meters race and 2nd prize in 1,000 meters race and 400 meters race.

(6) Debates, etc. :

The students participated in Debates, University Youth Festival programme, Planning Forum activities, etc.

(7) Film Shows :

Some films covering subjects taught in classes were obtained from foreign embassies and were used to demonstrate certain aspects of technical subjects. Twelve films on Mental Hygiene were shown to interested citizens during the year. The response, 50 to 150 attendance per show exhibited the growing interest in Mental Health.

(8) The Faculty invited local persons to deliver lectures :

S. No.	Name of the Lecturer	Subject	Date
1.	Shri A. N. Shelat, Assistant Charity Commissioner, Baroda	The Public Trusts and the Social Workers	6-4-1959
2.	Shri C. B. Thakor, Chief Officer under Bombay Probation Offenders Act, Baroda	Adult Probation Work in Baroda	7-4-1959

(9) Magazine :

The sixth issue of the Faculty Magazine was published in June, 1959. It is now taking the shape of a Journal known "Social Work Review". Some well-known people in the field of social work and members of the staff have contributed articles in this issue.

(10) Planning Forum of the Faculty :

The Faculty Planning Forum Programme which was constituted in the year 1957-58 arranged one Symposium and some debates, talks, film shows, etc. during the year.

(11) Tutorials and Class Work :

The method of teaching adopted in the Faculty lays emphasis on class participation of students. Seminar discussions at post-graduate level are encouraged and implemented as far as possible. Individual supervision forms an important part of the Faculty's programme. Each student is assigned to a member of the staff for the purpose of discussing problems arising out of his field work experiences ; regular weekly conferences are held for this purpose. By this, the student is helped to learn to put theory into practice. Similarly for research guidance, the students hold regular conferences with their research guides which facilitates supervision of the students' day-to-day progress.

(12) Social Education Organisers' Training Centre, Samiala :

The Social Education Organizers' Training Centre is a constituent unit of the Faculty of Social Work, situated about 8 miles from Baroda on the road to Padra. This Centre is one of the ten Social Education Organisers' Training Centres in the country and is receiving a grant from the Ministry of Community Development, Government of India.

This is an in-service training Centre for the Social Education Organisers who work as specialists incharge of Social Education in the Development Blocks, along with other specialists in the Community Development Programme. The Centre trained two batches during the year, the first batch consisting of 23 trainees and the second 27 trainees. The trainees are deputed by the various States.

The training centre was started in January, 1955 exclusively for women who underwent specialized training for three months after the regular training of five months for Social Education Organisers' Work. Later, due to the growing demand for Social Education Organisers in the field and shortage of training centres, the Ministry of Community Development started three more centres and this centre was converted into a five months' training centre for both men and women. Till now 122 men and 194 women have been trained at the centre.

The training consists of orienting the trainees to village life and

village problems, and in giving them training in social skills that bring about maximum participation of the villagers in the development programme and sustain an active and continuous interest in them. The training also consists of providing a working social philosophy for community uplift through community action. Being part of the Faculty of Social Work, the overall training at the Centre has a social work bias and enjoys a reputation for creative programme and work.

During the year under report the trainees did field work, village work, held village camps at Bochasan Ashram, Kaira District and Madhi Ashram, Surat District. The trainees went on a study tour of the N.E.S. Block, Jam-Jodhapur (Saurashtra), Bombay State.

Some of the members of the staff attended the seminars and Conferences at Gargoti, Nilokheri and Rajpur (Derhadon).

The Centre also started a Health Clinic with the assistance of Government Doctors of Padra Health Unit, and financial help in the form of medicines from the University.

13. Other Important Events

(1) The Faculty is conducting research on " Problems of Working Mothers in Baroda City " and the work is in progress.

(2) Shrimati Manorama Karandikar Shield, donated by Dr. G. K. Karandikar to the Faculty for awarding it to the outstanding student, was awarded to Shrimati Swaran Dhavan who graduated in 1958.

(3) The Labour and Social Welfare Department of the Government of Bombay gave a token grant for recognition of the work done by Mental Hygiene and Psychiatric Clinic.

(4) Distinguished Visitors :

The following are some of the distinguished visitors to the Faculty during the year under report :

1. Dr. Miss Joan Mencher, Anthropologist, Columbia University.
2. Mr. Murary Thrompson, A.F. Sc., Delhi.
3. M/s U. Mra Tun Co., U. Than Maung and Dr. Sailer, United Nations Social Welfare Expert in Burma.
4. Dr. D. M. Bassa, Psychiatrist, Bombay.
5. Dr. C. D. Deshmukh, Chairman, University Grants Commission, New Delhi.

6. Shri S. K. Day, Union Minister for Community Development, New Delhi
 7. A group of students of Kashi Vidyapith, Varanasi
 8. Miss Baker and Miss Galby, Nirmala Niketan, Bombay
 9. Dr. A. V. Raman Rao, Commissioner of Labour, Government of Bombay
 10. Miss Prue Dempster, Lecturer in Economic Geography, University of Melbourne, Australia
 11. Mrs. Azriah, Home Economist of Agriculture Institute, Allahabad
14. Alumni Association

The Alumni Association continued to give information and counsel to graduates regarding job situations and other problems. The Association has organised a branch at Ahmedabad where a regular programme of meetings, discussion groups, etc. is being carried out effectively. The Association is encouraging formulation of nucleus groups of Alumni at various other places also. It intends to publish a news bulletin to keep members in touch with each other. Out of 133 graduates 104 have been already employed in professional fields, one in non-professional field, while there is no information about the rest.

CHAPTER XVII—ORIENTAL INSTITUTE

1. Brief History

The Baroda Central Library, which was established by the former Government of Baroda in 1910, had a Sanskrit Section consisting of manuscripts and printed books. In 1915 this Section started publication work under the Gaekwad's Oriental Series. The work of the Sanskrit Section gradually expanded and in 1927 it was separated from the Central Library and made into an independent institution. It was called the Oriental Institute and placed in charge of a Director with the necessary technical and administrative staff. In 1931, the Translation Branch of the office of the Commissioner of Education, which was publishing books in Gujarati, Marathi and Hindi, was transferred to the Oriental Institute. When the Institute was taken over by the University in 1949, it had a record of having published 109 volumes in the Gaekwad's Oriental Series and 516 other books.

2. Buildings

The Oriental Institute shifted on the 25th January, 1958 from the Government building called the Record Tower Building to the spacious accommodation provided on the ground floor of Shrimati Hansa Mehta Library building.

3. Staff

After the shifting of the Institute to its new premises the Ramayana Department was recognized as a separate section with the General Editor as its Head. Professor G. H. Bhatt, M.A., was appointed General Editor and Head of the Ramayana Department, and Professor B. J. Sandesara, M.A., Ph.D., Professor and Head of the Gujarati Department was appointed Director of the Institute from the 1st April, 1958.

During the year, the staff consisted of the Director, 1 Deputy Director, 3 Research Officers, 7 Class III and 4 Class IV servants, as also the temporary and permanent members of the Ramayana Department, which has the General Editor and Head of the Ramayana Department, 2 Superintendents, 2 Research Officers, 15 Ramayana Assistants, 1 Ramayana Artist, 10 Part-time Workers and 2 Class IV servants. Besides, two temporary posts of MSS Assistant were created for eight months for clas-

sification and processing of more than 9,000 manuscripts received as gift from Yati Shri Hemachandraji of Baroda.

4. Work of the Institute

The main work of the Institute is research and publication of unpublished important works and the collection of printed books on all subjects related to Indology. The publications are under the following heads :

- (1) Gaekwad's Oriental Series
- (2) M. S. University Research Series
- (3) Journal of the Oriental Institute (quarterly)
- (4) M. S. University Oriental Series (published in the Journal of the Oriental Institute)
- (5) Critical and Illustrated Edition of the Valmiki Ramayana
- (6) The Maharaja Sayajirao Memorial Lecture Series
- (7) Shri Sayaji Sahityamala
- (8) Shri Sayaji Balajnanamala
- (9) Shri Sayaji Gramvikasamala
- (10) Matusri Jamnabai Smarak Granthamala
- (11) Shri Shishujnanamala

The Institute arranges the sale of these publications as well as the publications of other Faculties and Institutions of the University.

5. Post-graduate Teaching

Besides this, as a part of the scheme of co-ordination of the teaching of 14 sastras of Sanskrit in the University, six members of the Institute are recognised as post-graduate teachers in Sanskrit and for guiding M.A. and Ph.D. students. The Director, the Deputy Director and the Head of the Ramayana Department guide Ph.D. students in Sanskrit, Gujarati and Ancient Indian Culture and also teach M.A. classes in Sanskrit and Gujarati. 15 Ph.D. students and 31 M.A. students were guided by the post-graduate teachers of this Institute during the year.

6. Library and Reading Room

The Library of the Institute has two sections : (1) the Manuscripts Section and (2) the Printed Books Section.

(1) Manuscript Section :

This section has a collection of 14,373 MSS in Sanskrit, Prakrita, Pali, Apabhramsa and other Classical Indian Languages, of which 109

were added during the year. Out of these, 73 were purchased and 36 were received as gift.

In addition to the MSS mentioned above more than 9,000 manuscripts on different subjects were presented to the Institute by Yati Shri Hemachandraji of Baroda and 57 MSS were received as gift from Dr. Ambashankar N. Bhatt of Bhavanagar. The work of processing of these manuscripts is in progress.

A special exhibition of selected MSS was held and the special collection of MSS donated by Yati Shri Hemachandraji was declared open by Dr. Jyotindra M. Mehta, Vice-Chancellor, M. S. University of Baroda, under whose presidentship a public meeting was held on the 20th February, 1959 to honour and thank Yati Shri Hemachandraji for his very valuable gift. The special collection is preserved in the MSS collection of the Oriental Institute as "श्रीपूज्य जैनाचार्य लोकागच्छाधिपति श्रीन्यायचन्द्रजीमूखिजी तथा पूज्य महाराज श्रीस्वरूपचन्द्रजी स्मारक हस्तलिखित पुस्तकसंग्रह (ज्ञानमंडार)."

The manuscripts collection of the Oriental Institute has become richer by the addition of this new collection since it includes several MSS of historic value. The MSS collection of the Oriental Institute can easily be developed as an archival collection of national importance. There are MSS in almost all the scripts of India and efforts are being made to collect Persian and Arabic MSS as well.

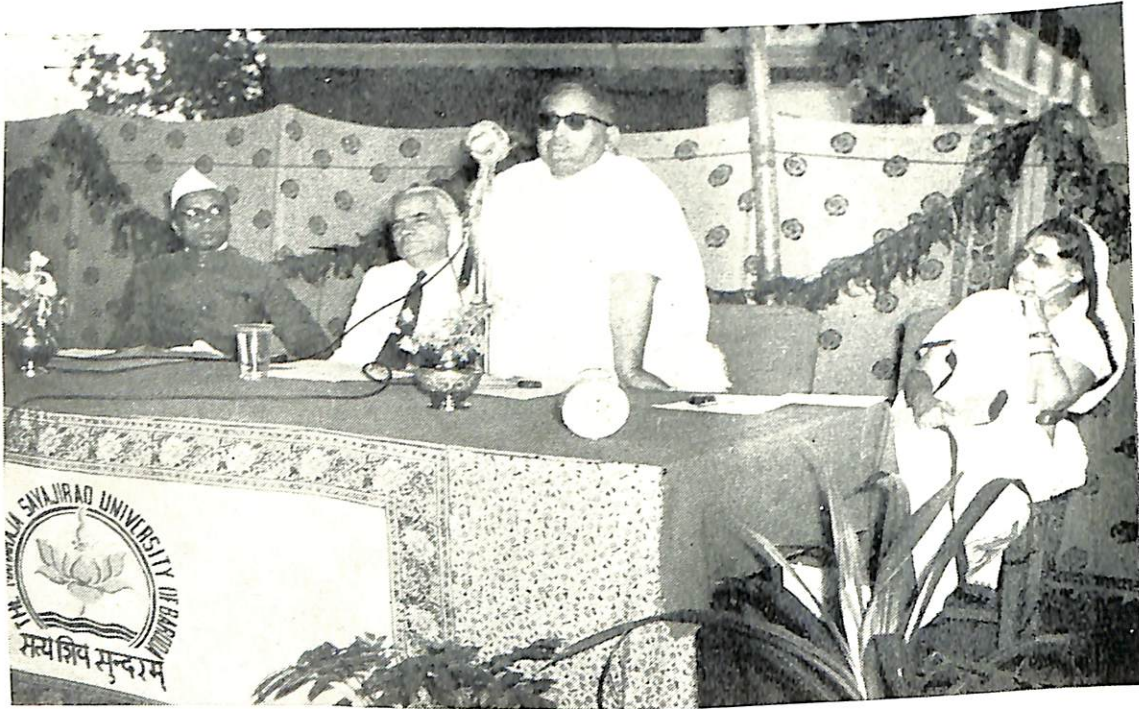
During the year, 34 MSS were lent to outside institutions and 730 were issued to different scholars for work on the premises of the Institute. 4 MSS were borrowed from other institutions.

(2) *Printed Books Section :*

This section has a collection of 21,364 books of the value of Rs. 1,95,176/- approximately, of which 576 books were purchased during the year at the cost of Rs. 5,000/- and 355 books were received as gifts and on exchange basis. The Library also provides 150 journals for reference. On an average 35 teachers and 40 students made use of this Reference Section of the Institute everyday. This Section is now supervised by the University Librarian, under whose guidance reclassification of all the books was carried out from January to June, 1958. The Library is now made into a Reference Library, known as Oriental Printed Section.

7. **Gaekwad's Oriental Series**

Editing and publication of the Series is one of the main activities of



Yati Shri Hemchandraji addressing the audience when donating his MSS collection to the Oriental Institute

this Institute. 130 volumes have already been published under this series. During the year, the following work was published :

GOS. No. 130 Visnudharmottara Khanda III—Vol. I (Text)
edited by Dr. (Kumari) Priyabala Shah pp. 1-411.

The following six works are under print the progress of which is as under :

1. Mansollasa Vol. III by Shri G. K. Shrigondekar pp. 1-184
2. Vaisesika Sutra with vrtti of Chandrananda
by Muni Jambuvijayaji pp. 1-120
3. Natyadarpan by Pt. L. B. Gandhi pp. 1-200+16
4. Pada-Index of Ramayana by Professor
G. H. Bhatt pp. 1-88
5. Natyasastra of Bharat Vol. IV
This work is delayed as it is under revision
by Shri J. S. Pade of this Institute pp. 1-48
6. Ullagharaghava by Professor B. J.
Sandesara and Muni Shri Punyavijayaji pp. 1-40

The sale proceeds of books (inclusive of G. O. Series, M. S. University Research Series, M. S. University Oriental Series, Publications of the Department of Archaeology and Department of Gujarati of the Faculty of Arts and subscription to Valmiki Ramayana, etc.) amounted to Rs. 24,554-63 nP. during the year.

8. Translation Branch

This branch of Institute carries on the publication work of the books under Series Nos. 6 to 11 mentioned in para 4.

(1) Shri Sayaji Sahityamala

The following books were published

1. ' इहेवत इथाने' by Swami Pranavathirthaji as No. 326
2. ' काव्यनी शक्ति ' by Professor R. V. Pathak (Second Edition)
3. ' साहित्य विमर्श ' by Professor R. V. Pathak (Second Edition)

(2) Shri Sayaji Gramavikasamala

' धृ ' by the late Shri M. S. Pandya

(3) The Maharaja Sayajirao Memorial Lecture Series

Lectures on ' भारतीय तरुविद्या ' by Pandit Sukhalalji

(4) Miscellaneous Series

' धर्मवर्णन ' by the late Dr. A. B. Dhruva

The sale proceeds of all the publications of the abovementioned series as also books of the late Professor B. K. Thakore and books of Sangeet Mahavidyalaya Series came to Rs. 5,301-75 nP. during the year.

9. Ramayana Department

The Department continued the work on Critical and Illustrated Edition of the Valmiki Ramayana. The collection of the Kiskindhakanda is nearing completion and that of the Sundarakanda has been started. Efforts have been made to obtain either by loan or purchase some MSS in Maithili script for the Aranyakanda to the Uttarakanda, and it is hoped they will be made available shortly. Other MSS in the Bengali and Newari scripts for Kandas III to VII have been procured from Banaras and Calcutta.

The Critical Apparatus of the Balakanda is finished and that of the Ayodhyakanda has come up to Sargas 19.

The Editor of the Balakanda, Professor G. H. Bhatt, has constituted the whole text of the Balakanda and has revised it upto Sargas 66. The Editor of the Ayodhyakanda, Dr. P. L. Vaidya, has constituted 52 sargas of the Ayodhyakanda.

The second fascicule of the Balakanda containing Sargas 11-50 (eight verses) was published in June, 1959. The first fascicule has been favourably received in India, Europe and America. The third and the last fascicule of the Balakanda with appendices, Critical Notes and Introduction will be out in June, 1960.

The printing of the quarter-verses of the Ramayana MSS was commenced, and eighty pages have been already printed.

10. Journal of the Oriental Institute :

The Institute publishes a Quarterly Journal. During the year Vol. VIII, Nos. 1-4 were published. The Journal is specially devoted to research studies in Indology and also includes papers on Ramayana and allied topics concerning epics and puranas.

11. Publications by the members of the staff

Name	Title	Where published or read
(i) Professor B. J. Sandesara, Director	(a) शरपंखो (b) आख्यान (c) अज्ञातकविकृत वर्ण-वन्नीसी	मिषग् भारती, July, 1958 मनीषा, August, 1958 वृहभविद्यानगर संशोधनपत्रिका Vol. I, No. 2

Name	Title	Where published or read
(d)	डभोईनी वैद्यनाथ प्रशस्ति अने तेमांना श्लोको	नवचेतन दीपोत्सवी अंक V.S. 2014
(e)	वढवाणमां रचायेला वे दिगंबर जैन ग्रन्थो	सौराष्ट्र संशोधन मंडळनुं त्रिमासिक, September, 1958
(f)	Lexicographical Studies in 'Jaina Sanskrit' Prabandha-chintamani of Meru-tungasuri	Journal of the Oriental Institute, December, 1958 in collaboration with Shri J.P. Thakar.
(g)	व्युत्पत्तिनो विनोद	विश्वमानव, February, 1959
(h)	विद्यावहेन— केटलांक संस्मरणो	बुद्धिप्रकाश, March, 1959

The Director, Professor B. J. Sandesara, was awarded a prize of Rs. 500/- by the Government of Bombay in March, 1959 for his book 'महामात्य वस्तुपालनुं साहित्यमंडळ अने संस्कृत साहित्यमां तेनो फाळो' adjudged to be one of the best books in Gujarati literature published during the year 1957.

Name	Title	Where published or read
(ii) Dr. U. P. Shah, Deputy Director	(1) Vrsakapi in the Rgveda	Journal of the Oriental Institute, Vol. VIII, No. 1 'Saurabha', 1958
	(2) न सत्यात्परमो धर्म	
(iii) Professor G. H. Bhatt, Head of the Ramayana Department	(1) Philosophy of Sandilya Rsi	Akhanda Ananda, September, 1958
	(2) Devarshi Narada	Akhanda Ananda, December, 1958
	(3) Pustimarga	Paper read at the 33rd Session of the Indian Philosophical Conference, December, 1958 and published in the magazine 'Anugraha', February, 1959
	(4) Krauncavadha in Dhvanyaloka and Kavyamimamsa	Submitted to the 20th Session of the All-India Oriental Conference, Bhubaneswar, Orissa

(2) Books:

Name	Title	Where published
(i) Professor B. J. Sandesara	(1) प्रदक्षिणा—पूर्व अने पश्चिमनी विद्यायात्रा	गुर्जर ग्रंथकार्यालय, अमदावाद

Name	Title	Where published or read
(2)	वर्णक-समुच्चय, भाग २ सांस्कृतिक अध्ययन अने शब्द-सूचिओ (in collaboration with Dr. R. N. Mehta)	प्राचीन गुर्जर ग्रंथमाला, June, 1959
(ii) Dr. U. P. Shah, Deputy Director	Girvanapadamanjari and Girvanavanmanjari Text and Introduction	Published in instalments in the Journal of the Oriental Institute— Vol. VII No. 4 Vol. VIII No. 1 Vol. VIII No. 2 Vol. VIII No. 3 Vol. VIII No. 4
(iii) Professor G. H. Bhatt, Head of the Ramayana Department	Critical and Illustrated edition of the Valmiki Ramayana, Balakanda, Fascicule 2 (Sargas 11-50)	Oriental Institute; M. S. University of Baroda, 1959

12. Distinguished Visitors

The following were some of the distinguished Visitors to the Institute:

Name	Date of visit
1. Shri Hajime Sakurabe, Lecturer, Nava Nalanda Mahavidyalaya, Patna.	20-10-1958
2. Shri Hirendra Chandra Sen, Retired, J.A.S., Sirdar Sankar Road, Calcutta	29-10-1958
3. Dr. C. D. Deshmukh, Chairman, University Grants Commission, New Delhi	17-11-1958
4. Dr. S. Bhattacharya, Education Officer, University Grants Commission, New Delhi	21-11-1958
5. Pandit Haridatta Shastri, Director of Ayurveda, Bombay State, Bombay	4-12-1958
6. Shri Hitendra Desai, Education Minister, Government of Bombay	11-12-1958
7. Shrimati Violet Alva, Deputy Minister for Home Affairs, Government of India, New Delhi	20-12-1958
8. Professor V. Venkatachalam, Professor & Head of the Department of Sanskrit, Madhav College, Madhav Nagar	31-12-1958

	Name	Date of visit
9.	Dr. Damel Thorner, Ph.D., Economist, Indian Statistical Institute, Bombay	11-2-1959
10.	Dr. Hanns Peter Schmid, Deccan College, Poona	28-2-1959
13.	Chronology of Gujarat Section	

The Manuscript for Vol. I, which covers the period of more than a thousand years, *i.e.* from the Pre-and Proto-History of Gujarat to 942 A.D., the end of the Chavada rule and the beginning of the Solanki period, has undergone thorough revision and scrutiny by an expert Committee. Then the final press-copy of the first volume approved by the Committee was sent to the press for setting in type. Seven forms (*i.e.* 56 pages) in crown quarto size were printed during the period and further work is in progress. Preparations for volume II *i.e.* for the Age of the Solankis and the Vaghelas ranging from 942 A.D. to 1297 A.D. are in active progress.

CHAPTER XVIII—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

1. Brief History

The Institution was first started in 1886 by the former Government of Baroda. It was known as the Bharatiya Sangeet Vidyalaya (School of Indian Music). It was taken over by the M.S. University in 1949 and designated as the College of Indian Music. At that time it offered a diploma course in vocal and instrumental music. The University introduced a four year course leading to the degree of B.Mus. in vocal and instrumental music. Degree and Diploma courses in Dance and Dramatics were started from June, 1951. Post-graduate courses leading to the degree of Master of Music were introduced from the year 1954.

2. Building

The present building at Sursagar was occupied by the College in June, 1952. The gymnasium of the College was converted into an Open Air Theatre in 1956-57. Extension of the present building is in progress. This will provide facilities for the expansion of post-graduate studies and research.

3. Courses of Studies

The College offers the following courses :

- (1) Two year post-graduate course leading to the degree of Master of Music (M.Mus.) in Music, Dance and Dramatics
- (2) Four year course in Music (Vocal and Instrumental—Sitar, Violin, Dilruba, Bansari and Tabla), Dance (Bharat Natyam and Kathak) and Dramatics leading to the degree of Bachelor of Music
- (3) Two year post-diploma course in Dancing (Kathak)
- (4) Five year course in Vocal Music, Sitar, Dilruba, Violin and Tabla leading to the Diploma in Music. (Dip. Mus.)
- (5) Three year courses leading to the Diploma in Dancing (Dip. Dance) and Diploma in Dramatics (Dip. Dramatics)
- (6) Three year S. S. C. course in Vocal Music

4. General Education

General Education courses were introduced for the second and the third year degree students. The subjects covered were of general interest.

5. Number of students

The number of students enrolled in the various classes at the commencement of the year 1958-59 was as under :

Year/Class	Men	Women	Total
(1) Post-graduate Degree :			
Fifth year—Jr. Mus.	1	4	5
Sixth year—Sr. Mus.	2	1	3
Total	3	5	8
(2) Degree :			
First year	6	6	12
Second year	2	2	4
Third year—Jr. B. Mus.	4	2	6
Fourth year—Sr. B. Mus.	4	2	6
Non-Collegiate	1	1	2
Total	17	13	30
(3) Diploma :			
First year	138	92	230
Second year	54	36	90
Third year	60	37	97
Fourth year	20	13	33
Fifth year	18	12	30
Total	290	190	480
Grand Total	310	208	518

6. Staff

During the year, the staff consisted of a Principal, 1 Honorary Visiting Professor, 2 Honorary Visiting Lecturers, 2 Readers, 6 Lecturers, 5 Tutors, 20 Ustads (Teachers in Music, and Dance including part-time teachers, etc.), 10 class III and 9 class IV servants.

The following experts were invited to give lectures and demonstrations during the year :

S.No.	Name of the lecturer	Date	Subject
1	Shri V. R. Athavale, Bombay	12-7-1958	Vocal Demonstration
2	Shri N. M. Joglekar, Bombay	22-7-1958 to 28-7-1958	Demonstration and Lectures on Make up

S.No.	Name of the lecturer	Date	Subject
3	Shri D. N. Dixit, All India Radio, Ahmedabad	24-7-1958	Aspects of Broadcasting
4	Khansaheb Azmat Hussein Khan, Bombay	17-9-1958	Vocal Classical Music
5	Shri T. K. Mahalingam Pillai, Bombay	17-9-1958	Lecture Demonstration on certain aspects of Bharat Natyam (Javali, Swarjati, Mella-Kattu, etc.)
6	Shri Brij Narayan, Bombay	25-10-1958	Lecture on Modern Trends of Indian Classical Music and its future
7	Poet Harindranath Chattopadhyaya	5-12-1958	Lecture Demonstration on Dramatic narration and recitation
8	Pandit Chhidaje Pakhavaji, Mathura	20-12-1958	Demonstration of Laykari, etc. on Pakhavaj
9	Shri C. M. Shukla, Baroda	10-1-1959 11-1-1959 12-1-1959	Three lectures on Greek Theatre
10	Shri Dhirubhai Thakar, Ahmedabad	31-1-1959 1-2-1959	Three lectures on Gujarati Natya Sahityani Ruprekha
11	Shri G. D. Sondhi, Simla	12-2-1959 13-2-1959	Two lectures on Open Air Theatre
12	Dr. R. K. Yagnik, Rajkot	2-3-1959 3-3-1959 4-3-1959	Three lectures on 'The Themes of Play in Gujarati Theatres of the last 100 years'

7. Library and Reading Room

The working hours of the Library of the College are from 9-00 a.m. to 12-00 noon in the morning and 3-00 p.m. to 6-00 p.m. in the evening on week days and 9-00 a.m. to 1-00 p.m. on Saturdays. The Reading

Room is kept open from 8-00 a.m. to 1-00 p.m. in the morning and 3-00 p.m. to 6-00 p.m. in the evening on week days and 8-00 a.m. to 1-00 p.m. on Saturdays. The Library has been completely reorganised by classifying all books according to Library of Congress Classification System. A number of books regarding Music, Dance and Dramatics were added. The following are the figures showing average daily attendance and circulation of books :

1. Average number of students making use of the Library and the Reading Room daily	25
2. Average number of teachers making use of the Library and the Reading Room daily	15
3. Total number of books issued to students during the year	510
4. Total number of books issued to teachers during the year	770

The following figures show the stock and the expenditure on the maintenance of the Library and the Reading Room during the year 1958-59 :

S.No.	Particulars	Number	Cost in rupees
1.	Books (including back numbers of Journals) as on 1-7-1958	3,040	20,502=14
2.	Books written off during the year	7	19=87
3.	Books added during the year	350	2,691=25
4.	Books as on 30-6-1959	3,383	23,173=52
5.	Journals subscribed during the year	48	590=46
6.	Amount spent on binding during the year	—	242=24
7.	Total amount spent for Library and Reading Room during the year	—	3,523=95
8.	Museum, Laboratories, Studios, Workshops, etc.		

The College has a small museum of ancient instruments of various types. The drama property room contains a collection of costumes and many miscellaneous properties including make-up materials, etc. A Physics laboratory has been established to teach the students the principles of Sound.

The following table shows the cost of equipment in the laboratory :

S. No.	Item	Cost of equipment as on 1-7-1958	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 30-6-1959
		Rs.	Rs.	Rs.	Rs.
1	Physics laboratory	2,947=95	—	—	2,947=95

9. Publications by the members of the staff

(1) Articles or Papers :

Name	Title	Name of the Journal wherein published with month of publication
Professor R. C. Mehta	Music Education	Journal of Kala Vikas Kendra, Cuttak, October, 1958

(2) Books :

Name	Title	Name of the publisher with month of publication
Shri J. D. Thakar	ગુજરાતી ગ્રંથો	Gurjar Grantha Ratna Karyalaya, Ahmedabad, June, 1959

10. Literary, Cultural and Other Activities

(1) The programmes of music, dance and dramatics were arranged by the students and the staff of the College fortnightly on Saturdays during the whole year.

(2) The Natghar of the College gave several performances of two full length dramas viz. ' Sati ' and ' Shetal-ne-Kanthe '.

(3) Two lectures on ' Hamlet through the Ages ' were delivered by Mr. Herbert Marshall of Bombay under Extra Mural Activities.

11. Co-curricular Activities

(1) The College celebrated Anniversaries of Pt. Bhatkhande and Pt. Vishnu Digamber.

(2) A social-day gathering (College Annual Day) was held on the 25th January, 1959. The Chief Guest, Dr. Jyotindra M. Mehta, Vice-Chancellor of this University, gave away diploma certificates to the students who passed in the examination of 1958.

(3) The students of the College went on a study tour to Bombay.

12. Tutorials and Class Work

Tutorials are held regularly in each subject, covering both the theoretical and practical aspects. These tests have proved of great help to the students in maintaining an even progress of studies, and to teachers in maintaining regularity in the total coverage of each subject. Attendance at tutorials is compulsory.

13. Other Important Events

The following are the distinguished visitors to the College:

Name	Date of visit
1. International Students' Delegation	21-7-1958
2. Dr. C. D. Deshmukh, Chairman, University Grants Commission	17-11-1958
3. Dr. S. Bhattacharya, Education Officer, University Grants Commission	21-11-1958
4. Shri Hitendra Desai, Minister for Education, Government of Bombay	11-12-1958
5. Australian University Students' Delegation	17-1-1959

CHAPTER XIX—BARODA SANSKRIT MAHAVIDYALAYA

1. Brief History

The Institution was established by the former Baroda Government in 1915. With the passing of the Maharaja Sayajirao University of Baroda Act it became a constituent recognised Institution of the University but its management continued with the Government. The University took over the management of the Institution from the Government on the 18th June, 1951.

2. Building and Hostel

The Institution continued to be housed in the building in the city called Temple of Radhavallabh which belongs to the Devasthan Department, on a monthly rent of Rs. 100/-. It has a hostel in a hired building with accommodation for 15 students.

3. Courses of Studies

The Institution offers courses in four stages as under :

(1) A research course of two years' duration for the research degree of "Vachaspati" has been instituted for those who have passed the Acharya Examination of this University or its equivalent examinations.

(2) Uttamakaksha or Special Pandit course of four years' duration is split up into two courses—the Shastri course (degree course) extending over first two years and the Acharya course (post-graduate degree course) extending over the last two years in the subjects of (i) Vyakarana Shastra, (ii) Jyotish Shastra, (iii) Dharma Shastra, (iv) Sahitya Shastra, (v) Nyaya and Vaisheshik Darshan, (vi) Sankhya Yoga and Vedanta, Darshana and (vii) Purva Mimansa Shastra. Instruction in only the first four branches was imparted during the year.

(3) Madhyama Kaksha or diploma course of five years' duration leads to the diploma "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) Prathama Kaksha or certificate course is of three years' duration in each of the branches of (i) Yajurveda Yajniki, (ii) Rigveda Yajniki and (iii) Purana, with grammar and literature as compulsory subjects for all branches.

4. Number of Students

The number of students enrolled in various classes at the commencement of the year 1958-59 was as under :

Class			Men	Women	Total
(1)	Vachaspati (Research Course)		—	—	—
(2)	Uttamakaksha (Special Pandit Course)				
	Vyakarana Shastra	Acharya II year	—	—	—
		Acharya I year	1	—	1
		Shastri II year	1	—	1
		Shastri I year	1	—	1
	Jyotish Shastra	Acharya II year	—	—	—
		Acharya I year	—	—	—
		Shastri II year	1	—	1
		Shastri I year	—	—	—
	Sahitya Shastra	Acharya II year	—	—	—
		Acharya I year	—	—	—
		Shastri II year	2	—	2
		Shastri I year	—	—	—
	Dharma Shastra	Acharya II year	1	—	1
		Acharya I year	1	—	1
		Shastri II year	—	—	—
		Shastri I year	2	—	2
(3)	Madhyama Kaksha (Visharad Diploma Course)				
	Vyakarana Shastra	V year	—	—	—
		IV year	3	—	3
		III year	2	—	2
		II year	2	—	2
		I year	11	—	11
	Jyotish Shastra	V year	—	—	—
		IV year	3	—	3
		III year	2	—	2
		II year	4	—	4
		I year	6	—	6
(4)	Prathama Kaksha (Certificate Course)				
		III year	12	—	12
		II year	15	—	15
		I year	24	3	27
	Grand Total:		94	3	97

5. Staff

During the year, the staff of the Institution consisted of the Principal, 12 Adhyapakas, 2 Class III and 4 Class IV servants.

6. Library and Reading Room

(1) The Institution has a small library for the use of the members of the staff and a reading room.

(2) The following are the figures showing average daily attendance in reading room and circulation of books :

S.No.	Particulars	Number
1.	Average number of students making use of the reading room	40
2.	Average number of teachers making use of the library and the reading room daily	10
3.	Total number of books issued to the teachers during the year	210

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

S.No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of Journals) as on 1-7-1958	3,131	9,584=46
2.	Books written off during the year	3	4=75
3.	Books added during the year	125	467=73
4.	Books as on 30-6-1959	3,253	10,047=44
5.	Journals subscribed during the year	12	89=81
6.	Amount spent on binding during the year	—	—
7.	Total amount spent for the library and the reading room during the year	—	402=77

7. Literary, Cultural and Other Activities

(1) Lectures: Some teachers of the Institution gave lectures under the auspices of Shardopasak Mandal. The Institution also arranged five extension lectures on different subjects. The Principal delivered lectures at Devgadhi Baria, Bahadarpur and Lunavada.

(2) Celebrations: The Institution celebrated the Jayantis of Vyas, Kalidas and Valmiki on the 1st July, 18th October, 1958 and the 17th April, 1959 respectively.

8. Co-curricular Activities

(1) The Institution arranges every Friday debates and lectures in Sanskrit by students as well as by Adhyapakas, with a view to train students in the art of elocution and dialectics in Sanskrit.

(2) The Institution celebrated Shardotsava during the month of October and arranged a Parliamentary debate and an elocution competition in Sanskrit. It also organised a Kavi Sammelan in which a number of leading Sanskrit poets participated.

(3) A picnic of the students and the Adhyapakas to Motnath near Harni was also organised.

9. Other Important Events

(1) Distinguished Visitors :

(i) Shri Krishnashankar S. Shastri, Vedantacharya, eminent Pandit and Well-known Bhagawat Pravachankar of Gujarat.

(ii) Mr. and Mrs. Sterling P. Lamprecht, Professor of Philosophy, U. S. A.

(2) Donations :

(i) A donation of Rs. 1,500/- was received for the use of the Institution under G. K. R. Purohit Scholarship Fund for the purpose of supplying books to the students of the Institution.

(ii) A donation of Rs. 500/- was also given by Sheth Hansraj Thakersy Education Fund, Bombay in two instalments for distributing it equally to the students who were successful in the terminal examination of the year under report.

(3) The Annual Prize Distribution Ceremony for the award of diplomas, certificates, medals, etc. was held on the 8th February, 1959 under the presidentship of Dr. J. M. Mehta, Vice-Chancellor of the University.

CHAPTER XX—PREPARATORY CLASSES UNIT

1. Brief History

The Intermediate College was started by the University in June, 1950. Till 1954-55 the College had First Year and Intermediate Classes in Arts and Commerce. In June, 1955 these were replaced by the new Preparatory (Pre University) courses. The introduction in June, 1957 by the Faculties of Arts, Science and Commerce of the three year degree course necessitated the discontinuance of the Intermediate Classes, in Arts and Commerce, whereas the Preparatory Science Class was brought under this College in line with Preparatory Arts and Commerce. The College is renamed as 'Preparatory Classes Unit' from the year under report.

2. Building

The Unit has no building of its own. Classes are held in the rooms of the Faculties of Arts, Science and Commerce by suitable adjustments in the time tables of these institutions.

3. Courses of Studies

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

4. General Education

The Preparatory course is mainly a General Education course. Lectures are arranged for all students for the appreciation of Drama, Music, Painting, Architecture, etc.

5. Number of students

The number of students enrolled in the different classes at the commencement of the year 1958-59 was as under :

Class	Men	Women	Total
Preparatory course in Arts	204	176	380
Preparatory course in Science	430	49	479
Preparatory course in Commerce	363	8	371
Total ..	997	233	1,230

6. Staff

There are on the staff of the Unit a Principal, 7 Class III and 11 Class IV servants. The teaching work is done by the teachers of the Faculties of Arts, Science and Commerce.

7. Library and Reading Room

Under the University scheme of amalgamation of the libraries of institutions situated in the campus of Shrimati Hansa Mehta Library, the library of this Unit was amalgamated with the main Library. A few periodicals are being supplied for the teachers common room by the University Library.

8. Co-curricular Activities

(i) A.C.C., N.C.C., Sports :

A.C.C. training is compulsory for all the students of the Unit except for those who have joined the N.C.C. or for those who play one or more of the major games. A large number of cadets, both men and women, are from this Unit. They have taken part in ceremonial parades and also participated with distinction in the various competitions held at their camps.

The Unit Association organised Carrom, Badminton, Table Tennis and Draught tournaments which were keenly contested. Three students of the Unit were members of the University Cricket Team at the Inter-University Cricket Tournament held in Bombay. The Unit took part in Inter-Faculty Tournaments also.

(ii) Debates :

Students of the Unit participated in Inter-Faculty Debates organised by the M.S. University Union throughout the year.

(iii) Societies :

(a) Marathi Vangmaya Society: The Society organised a debate on the 2nd August, 1958 on "The lack of discipline amongst the students at present".

A lecture on language and literature was arranged on the 11th October, 1958 by Professor K. P. Kulkarni of Bombay and the prize distribution of the debate was also held on that day. The Society organised a variety entertainment programme on the 21st December, 1958.

(b) Geography Association: Several seminars and film shows were arranged for the benefit of the members and a tour to Bombay, Matheran, Lonavala and Poona was arranged during the Diwali vacation.

(c) Entertainment Committee: The students of the Unit participated in the Inter-Faculty competitions of variety entertainment pro-

gramme at the University Youth Festival (the 9th University Week). Some of the students represented the University at the Inter-University Youth Festival at New Delhi.

(d) Small Savings Scheme: The Unit Association took agency for the Twelve Year National Savings Certificate and the Ten Year Savings Certificate and collected about Rs. 28,000/-.

(e) Planning Forum: With a view to giving information regarding the various opportunities in the Second Plan period, a Career Conference was arranged. It was inaugurated on the 2nd February, 1959 by Shri Ramanbhai B. Amin, Managing Director of the Alembic Chemical Works Ltd., Baroda. Persons distinguished in various branches of knowledge, industries and professions were invited to talk in this Career Conference.

9. Tutorials and Class Work

This year the percentage of maximum of marks to be given for work at the Tutorials was raised from 20% to 30%. The system worked very satisfactorily during the year. The newly admitted students were explained the importance of the tutorial system. The portion of studies to be covered by a tutorial topic was announced to the students at least a week in advance but the actual topic was given only at the time of the tutorial. This reduced cramming on the part of students and thus the tutorials tended to become a real test. The Terminal Examination was considered as additional tutorial. The themes of the tutorials were given by the teachers to the tutors who examined the tutorials, prepared a record of the marks and worked out averages for submission to the University at the end of the year. The teacher in charge of the subject usually examined about 10% of the tutorial exercises. The tutors met the students in small batches and pointed out their mistakes and solved their difficulties.

10. Other Important Events

(1) Dr. J. M. Mehta, Vice-Chancellor, M. S. University of Baroda addressed the students of Preparatory classes on the 26th June, 1958.

(2) Shri Harish Vyas, a Bhoodan Worker gave a talk in Gujarati on 'Sarvodaya-ni-Drashtiye Bharatiya Sanskriti' on the 12th August, 1958.

(3) Shri Homi J. Talyarkhan, Parliamentary Secretary to the Chief Minister, Government of Bombay inaugurated the Small Savings Scheme of the College on the 27th September, 1958.

(4) Besides short excursions, for the first time, a long tour of the students covering almost all the major parts of India was organised with the help of the Government of India Youth Welfare Grant, from the 28th October to the 22nd November, 1958. 21 students and 2 members of the staff participated in the tour.

(5) A symposium was arranged on "The role of Preparatory Year Vis-à-vis the degree courses" on the 22nd January, 1959 under the Presidentship of the Vice-Chancellor Dr. J. M. Mehta.

(6) The Annual Day was celebrated on the 9th February, 1959 with Dr. C. S. Patel as Chief Guest. The programme consisted of prize distribution, light entertainment and dinner.

(7) Shri Harindranath Chattopadhyaya, M. P., the well-known poet, Dramatist, Producer and Actor gave a talk and a recital of his poems and dramatic pieces on the 24th February, 1959.

CHAPTER XXI—POLYTECHNIC

1. Brief History

This institution has been started since June, 1957 under the Expansion Scheme of Degree and Diploma Courses in Civil, Mechanical and Electrical Engineering of the Government of India under the Second Five Year Plan. The institution imparts instructions for the Diploma courses in Civil, Mechanical and Electrical Engineering of three years duration. Prior to the establishment of this institution, these courses were conducted at the Faculty of Technology and Engineering, when the strength of total admission was only 180 as against the present strength of 300. The syllabi of these courses are practically identical with those of the corresponding courses conducted by the Department of Technical Education, Bombay State, Bombay.

As regards finances, the University Grants Commission will bear the non-recurring expenditure on building, equipments and books to the tune of Rs. 13,40,000/-, Rs. 10,62,000/- and Rs. 20,000/- respectively. It has agreed to bear full recurring expenditure during the year 1957-58, 80% in the year 1958-59 and 50% in the years 1959-60 and 1960-61. The balance is to be borne by the Government of Bombay. The Government of India have also approved a loan of Rs. 18,52,500/- for the construction of three hostels to accommodate 456 students of the Polytechnic.

2. Building

As the new building of the Polytechnic was under construction temporary arrangements made last year were continued. The construction of the new building of this Institution progressed satisfactorily in spite of considerable handicap in procuring steel with the result that some portions of the new building have been handed over for occupation from June, 1959, for Polytechnic: (1) Office and Principal's Room, (2) Four classrooms, (3) One Drawing Hall, (4) One Library Hall, (5) Applied Mechanics Laboratory, (6) Strength of Material Laboratory, (7) Electronics and Wiring Jointing Laboratory, (8) Tin Smithy Shop, (9) Welding Shop, (10) Smithy and Foundry Shops, (11) Machine Shop, (12) Plumbing Shop.

3. Courses of studies

The Polytechnic offers the following Diploma courses in Engineering :

Name of the course	Duration of the course	Number of admissions
1. Diploma in Civil Engineering	3 years	180
2. Diploma in Mechanical Engineering	3 years	60
3. Diploma in Electrical Engineering	3 years	60

The first year and second year diploma classes only in Civil, Mechanical and Electrical Engineering were conducted during the year under report. The third *i.e.* final year classes have been started from June, 1959.

4. Number of students

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

	Men	Women	Total
<i>First year Diploma</i>			
Civil Engineering	188	--	188
Mechanical Engineering	73	--	73
Electrical Engineering	69	--	69
Total ..	330	--	330
<i>Second Year Diploma</i>			
Civil Engineering	114	--	114
Mechanical Engineering	73	--	73
Electrical Engineering	58	--	58
Total ..	245	--	245
Grand Total ..	575	--	575

5. Staff

During the year, the staff consisted of Principal, 4 Professors, 13 Lecturers, 26 Demonstrators, 38 Class III and 46 Class IV servants.

6. Library

In the Library 554 new books worth Rs. 11,711=27 were added during the year thus bringing the total number of books acquired for the Library to 1919 at a total cost of Rs. 30,513=34. As the Library was in a formative stage during the year, books were issued only to the staff members, and the students continued to take advantage of the Library of the Faculty of Technology and Engineering.

S.No.	Particulars	Students used the Library of the Faculty of Technology and Engineering
1.	Average number of students making use of the Library and Reading Room daily	10
2.	Average number of teachers making use of Library daily	Nil
3.	Total number of books issued to students during the year	655
4.	Total number of books issued to teachers during the year	

S.No.	Particulars	Number	Cost in Rs.
1.	Books (including the back numbers of Journals) as on 1-7-1958	1,365	20,802=07
2.	Books written off during the year	--	--
3.	Books added during the year	554	11,711=27
4.	Books as on 30-6-1959	1,919	30,513=34
5.	Journals subscribed during the year	34	1,303=70
6.	Amount spent on binding during the year	--	--
7.	Total amount spent for Library and Reading Room during the year	--	13,014=97

7. Laboratories, Workshops, etc.

Out of Rs. 10.84 lakhs sanctioned for equipment, furniture and Library, Rs. 2,24,011=33 have been spent during the year. The total amount spent from this grant upto the end of the year is Rs. 4,76,239=25. The following table gives the cost of equipment, machinery, etc., in the different laboratories and workshops of the Polytechnic :

S.No.	Laboratory or Shop	Amount sanctioned by the University Grants Commission	Total amount spent upto 30-6-1959
		Rs.	Rs.
1.	Physics and Chemistry Laboratory	54,000=00	16,251=47
2.	Applied Mechanics Laboratory	18,000=00	7,775=52
3.	Strength of Mat. Laboratory	60,000=00	18,451=71
4.	C.E. and R.C.C. Laboratory	11,800=00	11,753=97
5.	Surveying Instruments	86,800=00	50,462=08
6.	Heat Engines Laboratory	1,42,000=00	17,994=97
7.	Hydraulics Laboratory	70,000=00	6,930=39
8.	Electrical Engineering Laboratory	2,11,000=00	93,345=69

S No.	Laboratory or Shop	Amount sanctioned by the University Grants Commission	Total amount spent upto 30-6-1959
9.	Electronics Laboratory	23,500=00	14,495=10
10.	Workshops		
	(a) Carpentry Shop	33,000=00	22,185=33
	(b) Fitting Shop	38,600=00	11,943=66
	(c) Machine Shop	1,38,700=00	1,09,542=67
	(d) Smithy Shop	22,000=00	12,391=92
	(e) Foundry and Moulding Shop	15,000=00	10,188=21
	(f) Welding Shop	10,000=00	4,062=60
	(g) Tinsmithy Shop	5,000=00	4,371=33
	(h) Masonry and Plumbing Shop	5,000=00	974=79
	(i) Drawing Materials	4,000=00	—
11.	Models and Material for Models	7,000=00	4,201=55
12.	Audio-visual Equipment	9,100=00	—
13.	Furniture	1,00,000=00	41,406=10
14.	Books	20,000=00	17,510=19
	Total:	10,84,500=00	4,76,239=25

Orders to the tune of Rs. 2,54,000/- for further equipment, etc., have already been placed. Arrangements for ordering the balance of equipment, etc., are on hand.

8. Literary, Cultural and Co-curricular Activities

Only the first and second year classes were started at the Polytechnic and the final year diploma classes were still conducted at the Faculty of Technology and Engineering during the year. The staff of the Polytechnic has been working jointly with that of the Faculty, and all extra-curricular activities of the Polytechnic viz. extra-mural activities, sports, debates, lectures by distinguished visitors, etc. were organised by the Faculty.

9. Tutorials and Class work

Attendance at the terminal examination, tutorials and tests is compulsory. The system of giving credit for work done during a term is followed. Regular records of class work and periodical tests of the students are maintained. In deciding the annual results of the examinations conducted by the University, the marks obtained by the candidates in their terminal examination, tutorials, class work and tests are taken into account.

CHAPTER XXII—SHRIMATI HANSA MEHTA LIBRARY

1. Brief History

The University Library was started in the year 1950 in an old building near the University Office. The University Grants Commission and the Government of Bombay sanctioned a grant of Rs. 10,00,000/- for building and Rs. 79,225/- for special furniture and equipment. A new building was constructed at a cost of Rs. 12,42,300/-. The University Library was shifted to the new building in June, 1957 and the libraries of the Faculties of Arts, Science, Education and Psychology, Commerce and the Preparatory Classes Unit were taken over. It was renamed as Shrimati Hansa Mehta Library. A fine panel of sculpture in cement is executed on the front facade of the new building. The library also provides instruction in the course leading to the Post-graduate Diploma in Library Science.

2. Acquisition Notes

(I) Books:

Three special grants have been received from the University Grants Commission for the purpose of books and periodicals. They are as follows:

	Grants	Amount Rs.
1.	For books on Humanities	1,00,000/-
2.	For books on Science and Technology	50,000/-
3.	For books for the Development Schemes of the following Departments:	
	(a) Archaeology	10,000/-
	(b) English	10,000/-
	(c) Hindi	10,000/-
	(d) Psychology	18,900/-
	(e) Sociology	20,000/-

A grant of \$ 8000.00 has been received for the purchase of books under the India Wheat Loan Educational Exchange Programme. Out of this \$ 3000.00 have been allotted to Humanities and \$ 5000.00 have been allotted to Science and Technology. Orders for these books have been placed and have been partly executed. The rest of the books are expected to be supplied shortly.

As usual the library received a grant of Rs. 20,000/- from the University for the purchase of books and periodicals. The grant has been fully utilized.

There have been some noteworthy additions during the year, viz. British Union Catalogue of periodicals, 2 vols.; International Law by Lauterpacht, 2 vols.; Handbook of Snakes of the United States of America, 2 vols.; Cambridge Bibliography of English Literature-supplement volume; The Reference Catalogue of Current Literature, 2 vols.; Studies in Indian Literary History by Gode, 3 vols.; National Union Catalogue (Library of Congress) vol. 1-28; Everyman's Encyclopaedia, vols. 1-12; The Harvey Lectures, vol. 1-51; American History told by Contemporaries, 5 vols. ed. by Albert Bushnell Hart.; Advances in Virus Research, vols. 2-5, by K. M. Smith; Survey of Biological Research, 3 vols., by George Avery; Dewey Decimal Classification, 2 vols. by Melvil Dewey; World Survey of Education, 2 vols. by Unesco.; Roman Rule in Asia Minor, 2 vols. by Margie Pavid, etc.

The policy of acquiring the back-files of scholarly periodicals is being consistently followed and the following back-files have been acquired during the year:

Journal D'Analyse Mathematique, vol. 1-5; Canadian Journal of Mathematics, vol. 1-9; American Mathematical Society Transactions, vol. 1-9; Annals of the Institute of Statistical Mathematics, vol. 1-9; Science Abstracts—Series A, Vol. 13-44; Journal of the Linnean Society, vol. 34-42; International Review of Cytology, vol. 1-6; American Journal of Botany, vol. 17-20; Botanical Review, vol. 1-10; Journal of Scientific Instruments, vol. 29-32; Modern Chemical Progress, vol. 1-5; Bulletin of the Calcutta Statistical Association, vol. 1-5; Proceedings of the Royal Society, vol. 238-244; Public Administration Review, vol. 1-15; Journal of the Royal Anthropological Institute of Great Britain and Ireland, vol. 40-87.

The number of acquisitions in books for various institutions are as follows:

Institution	Number of books
1. Shrimati Hansa Mehta Library (which includes the books for the Faculties of Arts, Science, Education and Psychology and Commerce and Preparatory Classes Unit)	9,839

Institution	Number of books
2. Faculty of Technology and Engineering	1,353
3. Faculty of Fine arts	365
4. Faculty of Home Science	939
5. Faculty of Social Work	366
6. Oriental Institute (Printed Section)	931
7. College of Indian Music, Dance and Dramatics	350
8. Sanskrit Mahavidyalaya	66
9. Polytechnic Institute	554
Total	14,763

Out of this acquisition of books, 9,708 books were procured from the grants of the University, 2,050 books from the grants given by the University Grants Commission, 1,345 books were received under the India Wheat Loan Educational Exchange Programme and 1,660 books were received as gift.

The following statement gives the details of the types of acquisitions of Shrimati Hansa Mehta Library during the year:

	Books	Bound Periodicals	Pamphlets	Manuscripts	Maps, Charts, Theses, etc.	Total Value in Rupees
Number at the beginning of the year	1,22,863	12,982	4,056	5	424	17,12,860=69
Number added during the year	9,839	1,154	1,500	51	99	1,51,848=48
	1,32,702	14,136	5,556	56	523	18,64,709=17
Number withdrawn from records	18	—	—	—	—	190=19
Total number at the end of the year	1,32,684	14,136	5,556	56	523	18,64,518=98

(2) Periodicals:

The total number of periodicals and scholarly journals subscribed for, now stands at 757. A policy of systematically adding more scholarly periodicals in each field has been worked out and is being followed. The total number of periodicals bound and added to the stock during the year is 1,154.

✓ 3. Lending

The Library remains open from 8-00 a.m. to 8-00 p.m. on all working days except Sundays and holidays. It is kept open on Sundays and holidays during the second term in order to give more facilities to the students preparing for examinations. The number of readers registered in various categories were as follows :

(1) Post-graduate students	531	}
(2) Undergraduate students	3,664	
(3) Research students, scholars and assistants	75	
(4) University teachers	413	
(5) Others	277	
	<hr/>	
	Total	4,960

The statistics of average daily attendance and circulation of books were as under :

(1) Average number of readers visiting the Reading Room	960
(2) Average number of books issued per day	625
(3) Total number of books issued during the year	1,95,000

4. Cataloguing

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

Books classified and catalogued during the year	
(1) New accessions of University Library	9,839
(2) New accessions of the Faculties	4,924
(3) Books transferred from the Faculty of Technology and Engineering	2,700
(4) Arrears from the last year	4,000
	<hr/>
	Total 21,463

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

	University Library	Faculties	Total
(1) Cards typed	66,156	19,696	85,852
(2) Cards filed in the catalogues	66,156	19,696	85,852
(3) Books labelled	16,539	4,924	21,463

5. Reference Section

(1) Exhibitions :

This year the Reference Section organised the following book-exhibitions :

- (i) The books that changed the world
- (ii) New age in Physics—from 1896 to this date
- (iii) Books in Gujarati on Sociology
- (iv) Exhibitions of new noteworthy books

(2) Bibliographical Activity :

There are no good cumulative indices containing references to periodical literature regarding Indian aspects in Humanities and Social Sciences. A long search needs to be done in these fields whenever queries are received. In order to make up the deficiency partially, a cumulative index in the form of card catalogue is maintained in the fields of (a) Social Sciences and (b) Education. These are prepared from (a) South Asia Social Science Abstracts and (b) Indian Education Abstracts.

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

- (i) Bibliography on the subject ' Vegetable Oils and Fats '
- (ii) Bibliography on ' Chinese Theatre '
- (iii) Bibliography on ' Social Work, Social Education '
- ✓ (iv) Bibliography on ' Indian Architecture ' ✓
- (v) Bibliography on ' Irish Dramatic Movement in general and on John M. Synge '
- (vi) Bibliography on ' Gujarati Dramas '

6. Teaching of Library Science

This year eighteen students were admitted to the course and all of them appeared in the examination. Twelve came out successfully, two getting first class and eight second class. One of the four ex-students who appeared, was successful. The teaching work was done by the University Librarian, Assistant Librarian and Sectional Superintendent of Order Section. In the first term Shri U. M. Patel, Assistant Curator, Central Library, Baroda, also helped in giving instruction.

7. Faculty Libraries

The Faculty Libraries were visited quarterly by the Assistant Librarian and by the University Librarian. The inspection report show-

ing the details of work and advice were sent to the Faculties in order to co-ordinate the library activities as a whole. The detailed reports of Faculty Libraries are included in the reports of respective Faculties.

8. Other Important Events

Library Advisory Committee appointed by University Grants Commission under the Chairmanship of Dr. S. R. Ranganathan visited the library on the 25th July, 1958. The Committee discussed various problems of the library building, planning and equipment, with the University Engineer, University Architect and University Librarian.

The following distinguished persons had visited the Library during the year:

- (i) Dr. C. D. Deshmukh, Chairman, University Grants Commission
- (ii) Shri Lal Bahadur Shastri, Minister for Commerce and Industries, Government of India
- (iii) Shri Hitendra Desai, Minister for Education, Bombay State, Bombay
- (iv) Mr. F. F. Hill, Vice-President, and other Officers of the Ford Foundation
- (v) Dr. Howard E. Houton, Director, United States of American Technical Co-operation Mission to India
- (vi) Shri Bakshi Gulam Mohommad, Prime Minister, Jammu and Kashmir State
- (vii) Shrimati Violet Alva, Deputy Minister for Home Affairs, Government of India
- (viii) Dr. S. Bhattacharya, Education Officer, University Grants Commission
- (ix) Alberta Letts, Canadian Library Expert, President-Canadian Library Association
- (x) Professor D. S. Kothari, Professor of Physics, and Scientific Adviser to the Ministry of Defence, Government of India
- (xi) Col. B. H. Zaidi, Vice-Chancellor, Aligarh Muslim University

CHAPTER XXIII—M. S. UNIVERSITY OF BARODA PRESS (SADHANA PRESS)

1. Brief History

The University took over the Sadhana Press at Baroda on the 18th May, 1953 at a total cost of Rs. 73,000/- from the International Book House Ltd., Bombay and renamed it "The Maharaja Sayajirao University of Baroda Press".

2. Building

The Press continued its work in the old rented building in Raopura. Construction of a new building to the south of the Faculty of Technology and Engineering, near the Maharaja Pratapsingh Coronation Pavilion was started in the year 1956-57 and the building is nearing completion. In June, 1959 the Press vacated the old rented building and occupied the ground floor of the new building.

3. Staff

During the year, the staff of the Press consisted of a Manager, an Assistant Press Manager, a Senior Clerk and 36 permanent workers of the Press. Temporary workers were also engaged when required. During the year two monotype operators and one monotype caster attendant who were deputed for training to work on Monotype Machine at Calcutta, Monotype School, have returned after the training and are now operating the machines.

4. Machinery

The Monotype Machine and the Funditor Remelting Furnace which were purchased earlier were fitted in the new building. Against orders placed for new matrices, etc. for the Monotype machine, a partial supply has been received. The total cost of the machinery is about Rs. 70,000.

5. Printing Activities

During the year under report 164 examination papers for October, 1958, 442 + 81 for March-April, 1959 and June, 1959 University examinations were printed in addition to Syndicate and Senate proceedings, handbooks, annual report, annual accounts, budget, establishment list, pamphlets, certificates, etc. The Press also printed general forms, lists, prospectus, questionnaires, magazines, pamphlets, etc. of all the Faculties and the Institutions.

(a) The following books were completed and published during the year :
Ramayana Critical Edition. Balakanda and Fascicule

	(Ramayana Department)
Selections of Baroda State Records	(Faculty of Arts)
धङ्ग	(Oriental Institute)
रींग्रेम	(Tairo)
भारतीय तत्त्वविद्या	(Oriental Institute)
धर्मवर्णन	"
कहेवत कथानके	"
साहित्य विमर्श	"
आवधु-अंक अध्ययन	(Faculty of Arts)
विष्णुधर्मोत्तर	(Oriental Institute)
Stone Age Industries of the Bombay and Satara Districts	(Faculty of Arts)
Personality of India, 2nd Edition	"
Case Work for Teaching Purpose	(Faculty of Social Work)
Voting Behaviour in an Indian Village	(Faculty of Arts)
An inquiry into the efforts of the working of the Tenancy Legislation in the Baroda District of Bombay State	(Faculty of Commerce)
Report of Seminar on Indian Philosophy and Education and Indian Contributions to Psychology	(Faculty of Education and Psychology)
Children's Drawing	(Faculty of Education and Psychology)
An Experimental Study of some Factors in Suggestion	(Faculty of Education and Psychology)
A Study of Human Relationship in a Secondary School	(Faculty of Education and Psychology)
History of Science	(General Education Department)
On Projects on Dynamic Methods of Teaching Gujarati	(Faculty of Education and Psychology)
On Item Difficulties of a Scholastic Achievement Test	(Faculty of Education and Psychology)
General Education Report Annual (1957-58)	(General Education Department)
Inhibitory Potential and the Effort Variable in Perceptual Psychometric Task	(Faculty of Education and Psychology)

वभारं आणकेने नतीय ज्ञान केवी रीते आपशा ? (Chetan Balwadi)
वभारं आणकेमां शिस्तपावन केवी रीते कणवशा ?
वभारं आणकेने माटे अवनवी वानगीया " " (Faculty of Social Work)
A Seminar on Supervision

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

The Journal of the M. S. University of Baroda	(Half yearly)
The Journal of the Oriental Institute	(Quarterly)
The Journal of the Vocational and Educational Guidance	(Half yearly)
The Journal of the Animal Morphology and Physiology	(Half yearly)
The Journal of Education and Psychology	(Quarterly)
The Journal of the Association of Principals of Technical Institutions—India	(Quarterly)

(c) The following works are in progress :

उल्लाघराधवनाटकम्	(Oriental Institute)
Pad-Index of Ramayana	"
नाख्य-दर्पण	"
वैशेषिक सूत्र	"
मानसोल्लास	"
वर्णक-समुच्चय	(Faculty of Arts)
काव्यनी शक्ति	(Oriental Institute)
प्रवेशको	(Faculty of Arts)
Mirat-I-Sikandari	"
Chronology of Gujarat	(Oriental Institute)
सौन्दर्यशास्त्र	(Faculty of Fine Arts)
Bhils of Ratanmal	(Faculty of Arts)
Preservation of Museum Objects	(Department of Museology)
Ramayana Critical Edition Balkand	(Ramayana Department)

6. Stationery Section

This section of the University Press is a service department of the University. It continued to manage the purchases and distributions of stationery required for the use of the University during the year. A special staff of one clerk, one attender and one distributor was provided for the work. Stationery was distributed to the Faculties and the Institutions every quarter.

CHAPTER XXIV—THE MAHARAJA SAYAJIRAO
UNIVERSITY UNION

The Maharaja Sayajirao University Union is a unique institution, embodying the creative functions of the residential University life and reflecting the corporate spirit in a cooperative endeavour. The students of the University irrespective of their diverse academic pursuits and cultural life, imbibe the feeling of organic unity and a sense of belonging.

When the academic year 1958-59 opened, Shri H. C. Dholakia continued to be the President and Shrimati Indira Bhanot as the Treasurer of the Union. Elections to other offices were held on the 27th July, 1958 and the following Executive Committee was formed :

- | | | |
|-----|------------------------|--------------------------------------|
| 1. | Shri H. C. Dholakia | President |
| 2. | Shrimati Indira Bhanot | Treasurer |
| | (Upto 17-7-1959) | |
| | Shri C. C. Shah | |
| | (From 18-7-1959) | |
| 3. | Shri C. D. Amin | Vice-President |
| 4. | Shri B. V. Mehta | General Secretary |
| 5. | Shri K. M. Shah | Joint Secretary |
| 6. | Shri D. K. Kothari | Secretary, Indoor Games |
| 7. | Shri K. J. Modi | Secretary, Debating Society |
| 8. | Shri J. S. Patel | Secretary, Reading Room & Library |
| 9. | Shri C. C. Parikh | } Members nominated by the Syndicate |
| 10. | Shri C. S. Matharoo | |
| 11. | Kumari N. Jobanputra | |

In addition to the above, there were other 15 members who were the representatives of various Faculties and teaching institutions.

The following members were nominated on the University Students' Welfare Board, University Board of Sports and the University Poor Students Aid Fund Committee :

- | | | |
|-----|-----------------------------------|-------------------------|
| (1) | University Students Welfare Board | (1) Shri C. D. Amin |
| | | (2) Shri B. V. Mehta |
| | | (3) Shri M. M. Patel |
| (2) | University Board of Sports | (1) Shri D. K. Kothari |
| | | (2) Shri P. N. Bhandari |

- | | | |
|-----|----------------------------------|----------------------|
| (3) | Poor Students Aid Fund Committee | (1) Shri C. D. Amin |
| | | (2) Shri B. V. Mehta |
| | | (3) Shri K. M. Shah |

2. Activities of the Sub-Committees

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

(1) Poor Boys' Library Committee :

The number of applications received for help from this library during the year was 350, out of which 180 students were issued the necessary books according to their requirements. New books were also purchased from the budget of the year according to the demand of the students. The Committee also appealed to all the students to donate their books to the Poor Boys' Library of the Union to help the poor students to prosecute their studies in the University.

(2) Indoor Games Committee :

The Inter-Faculty Badminton and Table Tennis tournaments and the open University tournaments in all indoor games were held in the first term. The University Table Tennis team won the Motibag Open Team Championship in both ladies and gents events. The Individual Championships were carried off by our students—Kumari Jyoti Patel and Shri J. W. Ghorpade. In Badminton, Devgadh Baria Trophy was won by our student Shri S. V. Dandekar.

The University teams also participated in Inter-University Badminton and Table Tennis tournaments held at Nagpur and Aligarh respectively. In the University Badminton tournament Shri Mafat Patel won the triple crown by winning men's single, doubles and mixed doubles.

(3) Debating Society :

The Society arranged a large number of debates during the year. Our students also participated in various Inter-University debates. The following teams won the Inter-University debates at various places :

- | | | |
|------|--------------------------------------|--|
| (i) | Sarvashri B. J. Bhatt and Shedbalkar | won the trophy at the Inter-University festival sponsored by UNSA at Madras. Shri Bhatt also received the third prize. |
| (ii) | Shri Vasant Joshi | won the second prize in Hindi debate sponsored by the Muslim University, Aligarh. |

- (iii) Shri Gopinath Menon won the first prize in the debate held at Patna.
- (iv) Sarvashri Prakash Desai and D. S. Shah participated in the debate on the occasion of Inter-University Youth Festival at Delhi.

During the year the following Inter-Faculty debates were also arranged :

- | | |
|--|------------|
| (i) Vice-Chancellor's Trophy Debate in English | 30-8-1958 |
| (ii) Staff Versus Students Debate | 29-9-1958 |
| (iii) Baroda College Silver Jubilee and Science Fund Debate in English | 4-12-1958 |
| (iv) Extempore Debate in Hindi, Gujarati and English | 6-12-1958 |
| (v) Shri B. N. Mazumdar Trophy Debate in Hindi | 11-12-1958 |
| (vi) Shri M. N. Wadia Trophy Debate in English | 13-12-1958 |
| (vii) Pro-Vice-Chancellor's Trophy Debate in Gujarati | 22-12-1958 |

(4) *Reading Room and Library Committee :*

The Committee revised the list of newspapers and periodicals. The Committee decided to provide the reading room and library with various books, periodicals, Times of India 'Who's Who' etc. representing a variety of cultural, social and political views. It subscribed to 9 newspapers and periodicals in English, 10 in Gujarati, 3 in Hindi and one in Marathi. It also continued the work of issuing books on every Thursday and Sunday in the evening to the students.

(5) *Hiking Club :*

During the year hikes to (1) Pavagarh in Panchmahal District, (2) Girnar, Palitana and Shetrunjaya in Saurashtra and (3) Kolhi Glacier in Western Himalayas were arranged.

(6) *Film Club :*

The Club exhibited seven English and nine Hindi films in the Auditorium of the Faculty of Technology and Engineering. The programmes were well attended by the students.

(7) *United Nations Society :*

The Society purchased four valuable books concerning U.N.O and its allied agencies and is also making efforts to secure more books. It sent 6 delegates to participate in the United Nations Students Association

Youth Festival held in November, 1958 in Madras. The 'Human Rights Day' was celebrated on the 10th December, 1958 under the presidency of Dr. J. M. Mehta, Vice-Chancellor of the University. A symposium on various aspects of Human Rights and a quiz competition were also arranged.

(8) *Discussion Group :*

The Discussion Group of the University Union held six discussions, arranged a 'Brain Trust' programme and published 'Campus Chronicle' which summed up all discussions in complete details, during the year.

(9) *Variety Entertainments Committee :*

The Committee organised three programmes during the year. The first programme was held in Baroda College Central Hall on the 15th August, 1958; the second programme on the 2nd October, 1958, the Gandhi Jayanti Day; and the third on the 26th January, 1959, the Republic Day, on a special stage constructed in front of the Pavilion. The Programmes consisted of group songs, dances, bhajans, garbas, mimics and vocal and instrumental music.

(10) *Social Service League :*

One of the chief activities of the League has been the circulation of books and magazines in hospitals. The patients undergoing long term hospitalisation or convalescing after an operation, show very keen interest in such programmes which relieve to some extent the monotony of their bed-ridden condition. The League also persuaded some students to donate their blood. It also extended its co-operation to the local branch of T. B. Association and collected Rs. 70/- through the sale of T. B. seals. It also arranged a discussion on 'Sex Information' in Shrimati Hansa Mehta Hall.

(11) *Bulletin Committee :*

The Bulletin Committee continued its work and maintained its standard in collecting reports and records of activities undertaken and successfully accomplished by the various committees of the Union. It published two issues of the magazine 'Pavilion Post' during the year.

3. *University Week*

The University Week Celebrations now constitute a regular feature of the yearly activities. It is the biggest University festival. It stretches over a week and its programme is highly diverse. It consists of physical and military displays, sports and exhibition matches, debates, poetry

recitation, competitions in drama, group dance, group songs and garbas, academic and cultural exhibitions in different Faculties of the University and public entertainment for the students. Almost every important item of the programme carries a silver trophy and a number of prizes. Every year the competitors improve their standard of performance, and also create an atmosphere of delightful camaraderie.

Besides the competitions, there were a few noticeable features of the University Week which deserve mention. There was a more spontaneous collaboration between the students and the staff. Indeed the whole programme evolved itself almost organically without falling into compartments. The pleasure therefore was continuous and cumulative.

An open air stage was erected for an audience of about six thousand students and all the items of the cultural programme were put up before the students. The competitions for various items of entertainment programme were held in the Baroda College Central Hall.

The Ninth University Week was inaugurated by Shri Hitendra Desai, Minister for Education, Government of Bombay on the 11th December, 1958. The prizes were distributed by Dr. Jyotindra M. Mehta, Vice-Chancellor of the University on the 15th December, 1958.

4. Fifth Inter-University Youth Festival

The University participated in the Fifth Inter-University Youth Festival organised by the Ministry of Education, Government of India at New Delhi from the 27th October to the 6th November, 1958.

The contingents sent by the University participated in drama, group dance, group song, classical dance, classical vocal music, debating and symposium. They also staged the cultural performances under the joint auspices of the Delhi Gujarati Samaj, New Delhi, Gujarati Samaj and the Delhi Gujarati Students Association, at the Shri Ram College of Commerce.

5. Important Events

A number of distinguished visitors came to the Union Pavilion.

	<i>Name</i>	<i>Date of visit</i>
(1)	The French Students' Delegation	25-10-1958
(2)	Dr. C. D. Deshmukh, Chairman, University Grants Commission	17-11-1958
(3)	Dr. S. Bhattacharya, Education Officer, University Grants Commission	21-11-1958

	<i>Name</i>	<i>Date of visit</i>
(4)	Shri Hitendra Desai, Minister for Education, Bombay State	11-12-1958
(5)	Shrimati Violet Alva, Deputy Minister for Home Affairs, Government of India	20-12-1958
(6)	Mr. F. F. Hill, Vice-President and other officers of Ford Foundation, U. S. A.	6-1-1959
(7)	The Australian University Students' Delegation	17-1-1959
(8)	Mr. Ellis, Regional Officer, British Information Service	2-2-1959
(9)	Col. B. H. Zaidi, Vice-Chancellor, Aligarh Muslim University	18-2-1959
(10)	Shrimati Hansa Mehta, Ex-Vice-Chancellor, M. S. University of Baroda	22-2-1959

CHAPTER XXV—VISITS, LECTURES AND DEPUTATIONS

1. Visits

The following were some of the distinguished visitors to the University during the year :

(1) Mr. M. Bernard Carreare and Mr. M. Pierre Michalet of the Students' Association of the Higher Technical Institute of the French Government visited Shrimati Hansa Mehta Library, the Medical College and other Institutions of the University on the 26th, the 27th and the 28th of October, 1958.

(2) The Prime Minister, Pandit Jawaharlal Nehru visited the Department of Museology, Faculty of Fine Arts on the 2nd November, 1958.

(3) Shri Bakshi Gulam Mohammad, Prime Minister, Jammu and Kashmir State visited the Faculty of Education and Psychology on the 4th November, 1958.

(4) Shri Morarji Desai, Union Minister for Finance, Government of India visited the Department of Museology, Faculty of Fine Arts on the 5th November, 1958.

(5) Professor Kenny and four other W.H.O. Psychologists from South East Asia visited the Faculty of Science, Medical College and the Museum and Picture Gallery on the 17th, the 18th and the 19th November, 1958.

(6) Shri S. K. Dey, Minister for Community Development, Government of India visited the Social Education Organizers' Training Centre at Samiala on the 22nd November, 1958.

(7) Shri Hitendra Desai, Minister for Education, Government of Bombay visited some Faculties and Institutions of the University on the 11th December, 1958.

(8) Shrimati Violet Alva, Deputy Minister for Home Affairs, Government of India visited the Faculties of Education and Psychology, Technology and Engineering and Home Science, Oriental Institute and Shrimati Hansa Mehta Library on the 20th December, 1958.

(9) Shri Lal Bahadur Shastri, Union Minister for Commerce and Industries, Government of India visited the Faculty of Technology and Engineering on the 2nd January, 1959.



Pandit Jawaharlal, Dr. Jivraj N. Mehta, Shri V. L. Devakar and Shri Y. B. Chavan
in the Department of Museology

(10) Mr. F. F. Hill, Mr. George F. Gant, Mr. Douglas Ensminger and Dr. E. Woodman of the Ford Foundation visited the University on the 6th January, 1959. They also visited some of the Faculties and Institutions of the University.

(11) Dr. Sterling P. Lamprecht, American Full-Bright Professor of the United States Educational Foundation in India, visited the Department of Philosophy and the Faculty of Arts on the 7th January, 1959.

(12) Professor J. B. S. Haldane delivered two lectures under the auspices of the Maharaja Sayajirao Memorial Lecture Series on the 16th January, 1959.

(13) The delegation of Australian University students consisting of six boys and three girls visited the Faculties of Science, Education and Psychology, Commerce and Technology and Engineering, College of Indian Music, Dance and Dramatics, Oriental Institute and Shrimati Hansa Mehta Library on the 17th January, 1959.

(14) Mr. Albert Litts, Canadian Library Expert (President, Canadian Library Association) visited Shrimati Hansa Mehta Library on the 11th February, 1959.

(14) Col. B. H. Zaidi, Vice-Chancellor, Aligarh Muslim University, Aligarh visited the Faculties and Institutions of the University on the 17th and the 18th February, 1959.

(15) Sir Mortimer Wheeler, Secretary, British Academy and a renowned Archæologist of international fame visited the University and delivered two lectures under the auspices of the Maharaja Sayajirao Memorial Lecture Series on the 3rd and the 4th of March, 1959.

(16) Shri J. D. Kapadia, I. C. S., Commissioner, Ahmedabad Division visited the Department of Sociology, Faculty of Arts and the Faculty of Home Science on the 25th March, 1959.

(17) Mr. M. C. Sheppard, Director of Museums, Federation of Malaya visited the Department of Museology on the 15th April, 1959.

2. University Extension and Other Lectures :

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

Sr. No.	Date of Lecture	Name of the Lecturer	Subject
Faculty of Arts			
1.	19-11-1958	Dr. M. F. Nimkoff	The changing American family and marriage in the United States in 1958
2.	27-11-1958	Dr. F. H. Young	(i) Transcendentalism in America with special reference to Emerson
	28-11-1958		(ii) Henry James, Senior's Philosophy
	29-11-1958		(iii) William James—Psychologist, Moralist and Pragmatic Philosopher
3.	3-1-1959	Dr. Sterling P. Lamprecht	American Philosophy
	7-1-1959		
4.	22-1-1959	Pandit S. D. Satvalekerji	Interpretation Mythology
	23-1-1959		
5.	28-1-1959	Professor P. E. Corbett	The Problem Controlling force in the relation of States
	29-1-1959		
6.	30-1-1959	Professor Nagendra, Delhi University	(i) करणरस का आस्वाद
	31-1-1959		(ii) रस का स्वरूप
7.	6-2-1959	Principal Yeshwant C. Parikh	(1) नवलकथाना इटलाक स्वस्थगत प्रश्ना
	7-2-1959		(2) नवलकथाना त-त्वेतु निश्चय
Faculty of Science			
1.	22-9-1958	Professor V. S. Huzur- bazar	(i) What are Mathematics and Statistics?
	23-9-1958		(ii) Is Mathematics consistent?
2.	17-11-1958	Dr. T. Banerjee	(i) Researches on Electro-metallurgical Processes at National Metallurgical Laboratory
	18-11-1958		(ii) Production of Electrolytic M_n and M_nO_2 from Indian Low-grade M_n Ores

Sr. No.	Date of Lecture	Name of the Lecturer	Subject
3.	16-12-1958	Dr. S. S. Dharmatti	(i) Can we see or hear the Atomic Nucleus? (ii) Nuclear Magnetism as a Probe to Molecular Structure
4.	21-12-1958	Principal R. D. Desai	Kekule-Couper Structure Theory
5.	21-12-1958	Dr. A. M. Trivedi	Modern Aspects of Theory of Valency
6.	21-12-1958	Professor B. C. Halder	Quantum-Mechanical Interpretation of Tetravalent Carbon
7.	30-12-1958	Sir C. V. Raman	Diamonds
8.	16-1-1959	Professor J. B. S. Haldane	Two Lectures on Physiological Variation and Evolution
9.	10-2-1959	Professor D. S. Kothari	(i) Six Lectures on Physical Principles of Quantum—Mechanics and Field Theory
	11-2-1959		(ii) Nuclear Explosions and their Effects
	12-2-1959		
10.	13-2-1959	Dr. R. Bozanic	Absolute Convergence of Fourier Series
11.	13-2-1959	Dr. J. Musielak	Some Examples of Families of Branch Spaces depending on a Parameter
12.	13-2-1959	Dr. S. P. Pandya	A Course of 20 lectures on "Theoretical Physics"
Faculty of Education and Psychology			
1.	4-11-1958	Mr. L. A. Hill	(i) Functional Aspect of Grammar
	5-11-1958		(ii) Modern Developments in Linguistics and Language Teaching
2.	5-11-1958	Mr. D. H. Spencer	Pronunciation and Spelling
3.	8-11-1958	Principal K. L. Desai	The Difficulties in the Teaching of English
4.	8-11-1958	Principal S. R. Bhatt	English in Secondary Schools

Sr. No.	Date of Lecture	Name of the Lecturer	Subject
5.	20-11-1958	Shrimati Violet Alva	The Advantages of a Residential University
6.	22-11-1958	Shri Ved Prakash	The Liberal and the Vocational in Indian Education
7.	29-11-1958	Mr. John Goatly	General Education
8.	4-12-1958 } 5-12-1958 }	Dr. F. H. Young	Relation between Philosophy and Psychology in U.S.A.
9.	8-1-1959	Dr. Sterling P. Lamprecht	Experimental Psychology in U.S.A.
10.	2-3-1959	Dr. R. Freeman Butts	Educational Research and Teachers' Colleges
Faculty of Medicine			
1.	22-6-1959	Dr. P. K. Sen	Principles in Cardiac Vascular Surgery
2.	27-6-1959	Dr. V. N. Shirodkar	My Contribution to the problem of Habitual Abortion and prolapse of Uterus
Faculty of Technology and Engineering			
1.	16-12-1958	Shri L. W. Lalchandani	(i) Production Planning and Control
	18-12-1958		(ii) Time study and Tool Engineering
2.	19-12-1958 } 20-12-1958 }	Shri M. Ramabrahman	Pile foundations
3.	12-1-1959	Professor G. B. Pant	(i) Guided missiles
	13-1-1959		(ii) Decent development in jets and space era
4.	27-1-1959	Professor C. S. Ghosh	(i) General use of symmetrical components for power system faults and introduction of power system relaying
			(ii) Importance of Electronics in Modern Power System Practice

Sr. No.	Date of Lecture	Name of the Lecturer	Subject
Faculty of Home Science			
1.	21-1-1959	Miss Maxine Birch	Tested Kitchens
2.	8-3-1959	Shrimati Maniben Desai	Integration of Health Education and Social Welfare Services in Nursery School
Faculty of Social Work			
1.	14-10-1958	Dr. D. M. Bassa	(i) Some Causes of Mental Illness
			(ii) The Importance of Mental Hygiene
2.	25-2-1959	Dr. J. F. Bulsara	Social Service Administration Course to students
Sanskrit Mahavidyalaya			
1.	4-8-1958	Shri Harish Vyas	Vinobaji as a Revolutionary
2.	8-9-1958	Shri Krishnashankar Shastri	Message to students
3.	23-9-1958	Dr. Arunodaya Jani	Sanskrit Studies in Europe
4.	6-10-1958	Shri Balshastri Hardas	Importance of Sanskrit Studies in Modern Days
5.	23-1-1959	Pandit Shri Satavalekarji	Adhibhautikam Darshanam
3.	Deputation to Conferences		
	The following members of the University staff were deputed to attend the Conference shown against their names, as delegates of the University during the year :		
	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>	
1.	Professor (Kumari) Justina A. Singh Shrimati Amita Verma Shrimati K. Karandikar Shrimati Renuka Mukerji Kumari Padma S. Chari Kumari Savitri Pandit (Faculty of Home Science)	All India Home Science Association at Jabalpur from the 20th to the 22nd October, 1958	
2.	Professor U. N. Singh (Faculty of Science)	Autumn Session of Studies in Mathematics, Banaras Hindu University from the 20th to the 25th October, 1958	

Name of the member of the staff	Name, place and dates of the Conference
3 Dr. S. S. Bhawe Dr. A. N. Jani Shri S. G. Kantawala (Faculty of Arts) Professor B. J. Sandesara (Oriental Institute) Shri H. C. Mehta Shri M. C. Jani Shri M. R. Joshi (Sanskrit Mahavidyalaya)	Veda Parishad at Sokhda on the 28th October, 1958
4 Shrimati Perviz Bhatt (Faculty of Social Work)	All India Correctional Officers' Conference at Calcutta in October, 1958
5 Dr. S. S. Bhawe Shri I. A. Dave (Faculty of Arts) Dr. M. S. Patel (Faculty of Education and Psychology)	Annual meeting of the Linguistic Society of India at Poona on the 1st and the 2nd November, 1958
6 Dr. R. M. Patel (Faculty of Arts)	Gujaratino Adhyapak Sangh at Bhavanagar on the 5th and the 6th November, 1958
7 Shri B. P. Gothoskar (Faculty of Science)	Annual Conference of Indian Association of Pathologists at Indore from the 20th to the 22nd November, 1958
8 Dr. C. V. Ramkrishnan (Faculty of Science)	Annual meeting of Indian Council of Medical Research at Indore from the 27th November, 1958 to the 3rd December, 1958
9 Shri S. K. Majmudar (Faculty of Social Work)	Seminar of Psychiatric Social Workers sponsored by the Institute of Social Service at Bombay on the 7th December, 1958
10 Shri S. R. Yardi (Faculty of Social Work)	Ninth National Seminar on Social Education in Urban Areas, held by Indian Adult Education Association at Lucknow from the 17th to the 21st December, 1958

Name of the member of the staff	Name, place and dates of the Conference
11 Dr. A. G. Javadekar (Faculty of Arts)	Akhil Bharatiya Darshan Parishad at Bikaner from the 18th to the 21st December, 1958
12 Professor P. J. Madan (Faculty of Technology and Engineering)	Symposium on Multi-Storeyed Office Buildings at Bombay from the 20th to the 22nd December, 1958
13 Shri R. S. Thakar (Faculty of Education and Psychology)	Third All India Science Teachers' Conference Modern School at New Delhi from the 24th to the 26th December, 1958
14 Dr. M. R. Majmudar (Oriental Institute)	Twenty-first Session Indian History Congress at Trivendrum from the 25th to the 28th December, 1958
15 Shri H. J. X. Fernandes (Faculty of Education and Psychology) Shri D. F. Pereira (Faculty of Social Work)	Bombay State Vocational Guidance Conference at Poona from the 26th to the 28th December, 1958
16 Dr. M. S. Patel (Faculty of Education and Psychology)	All India Educational Conference at Chandigarh from the 26th to the 30th December, 1958
17 Professor O. H. Patel (Polytechnic)	Seventh Annual General Meeting of Soil Conservation Society of India at Jaipur from the 26th to the 29th December, 1958
18 Kunvar Chandra Prakash Singh Shri B. L. Sinha (Faculty of Arts)	Akhil Bharatiya Hindi Parishad at Rajgarh from the 27th to the 28th December, 1958
19 Shri H. C. Dholakia (Faculty of Arts)	(i) Second Conference of Teachers of Law in India at Calcutta from the 27th to the 29th December, 1958 (ii) Seminar on Legal Education during the time of the Second Conference of Teachers of Law in India at Calcutta

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
20 Professor C. M. Shukla (Intermediate College)	Third National Youth Hostels Conference at Jaipur from the 27th to the 30th December, 1958
21 Dr. S. N. Mukerji (Faculty of Education and Psychology)	Conference of Principals of Training Colleges at Chandigarh from the 27th to the 29th December, 1958
22 Professor V. Y. Kantak (Faculty of Arts) Professor C. M. Shukla (Intermediate College)	Ninth Annual Session of the All India English Teachers' Conference at Madras, from the 29th to the 31st December, 1958
23 Dr. A. G. Javadekar Shri B. G. Desai Shri G. G. Parmar (Faculty of Arts)	Indian Philosophical Congress Society at Ahmedabad in the month of December, 1958
24 Shri H. L. Dholakia Shri H. B. Desai (Faculty of Commerce)	Twelfth All India Commerce Conference at Hubli under the auspices of the Karnatak University from the 30th December, 1958 to the 1st January, 1959
25 Professor U. N. Singh Dr. V. Venugopal Rao Shri M. N. Khatri (Faculty of Science) Shri C. C. Shah (Faculty of Technology and Engineering)	Indian Mathematical Society Conference at Poona from the 31st December, 1958 to the 3rd January, 1959
26. Professor R. C. Mehta (College of Indian Music, Dance and Dramatics)	All India Music Conference at Madras from December, 1958 to January, 1959
27. Professor T. K. N. Menon (Faculty of Education and Psychology)	Madras Psychology Conference at Madras from the 1st to the 4th January, 1959
28. Dr. R. D. Pandit Dr. (Shrimati) S. R. Pandit (Faculty of Medicine)	Tenth All India Obstetrical and Gynaecological Conference at Hyderabad (Deccan) from the 3rd to the 5th January, 1959

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
29. Dr. N. Srinivasan (Faculty of Medicine)	Eleventh Conference of the Association of the Otolaryngologists of India at Gwalior from the 10th to the 13th January, 1959
30. Shri L. J. Bhatt Dr. A. S. Patel (Faculty of Education and Psychology)	1959 Conference of Psychologists in India at Delhi on the 19th and the 20th January, 1959
31. Dr. B. Subbarao Shri S. C. Malik (Faculty of Arts) Dr. N. M. Bhatt Dr. D. V. Gogate Dr. J. C. George Dr. A. R. Chavan Dr. U. N. Singh Dr. N. S. Pandya Shri J. S. Dave Shrimati Indira Bhanot Shri J. M. Lohar (Faculty of Science) Dr. A. S. Patel Dr. M. Yognarasimhiah Shri L. J. Bhatt (Faculty of Education and Psychology) Dr. J. D. Pathak (Faculty of Medicine) Dr. A. M. Talati Shri A. M. Shah (Faculty of Technology and Engineering)	Indian Science Congress at Delhi from the 23rd January to the 30th January, 1959
32. Shri C. P. Singh (Faculty of Arts)	Annual Session of Hindustani Academy, Uttar Pradesh at Allahabad from the 24th to the 26th January, 1959

- | <i>Name of the member of
the staff</i> | <i>Name, place and dates of
the Conference</i> |
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| 33. Dr. C. V. Ramkrishnan
(Faculty of Science) | Symposium on Carbohydrate Metabolism in Plants at Delhi under the auspices of Botany Section of the Science Congress on the 25th January, 1959 |
| 34. Professor J. C. George
Professor A. R. Chavan
(Faculty of Science) | Conference on Biological Sciences held at the University of Delhi, under the auspices of the Inter-University Board of India from the 28th to the 30th January, 1959 |
| 35. Shrimati Indra S. Tayal
(Faculty of Social Work) | Seminar on Urban Community Development Conference of Social Work at Hyderabad from the 31st January to the 5th February, 1959 |
| 36. Professor M. N. Srinivas
(Faculty of Arts) | Fourth Session of the Indian Sociological Conference at Calcutta from the 31st January to the 1st February, 1959 |
| 37. Dr. B. S. Verma
(Faculty of Medicine) | Seminar (Dermatology Section) at the time of Silver Jubilee Celebrations of the Medical Council of India at New Delhi during January and February, 1959 |
| 38. Professor D. Subbarao
(Faculty of Technology and
Engineering)
(Professor L. B. Shah
(Polytechnic) | Eighteenth Annual Conference of the Association of Principals of Technical Institutions (India) at Chandigarh from the 3rd to the 5th February, 1959 |
| 39. Dr. B. S. Verma
(Faculty of Medicine) | Symposium on " Fungui diseases " at Calcutta on the 5th and the 6th February, 1959 |
| 40. Dr. J. S. Dave
(Faculty of Science)
Shri A. M. Talati
(Faculty of Technology and
Engineering) | International Symposium on the Chemistry of Coordinate Compound at Agra on the 7th and the 8th February, 1959 |

- | <i>Name of the member of
the staff</i> | <i>Name, place and dates of
the Conference</i> |
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| 41. Dr. J. D. Pathak
(Faculty of Medicine) | Seminar on Physiology organised at the time of Silver Jubilee Celebrations of the Medical Council of India on the 13th February, 1959 at New Delhi |
| 42. Dr. T. V. Patel
(Faculty of Medicine) | Seminar on Obstetrics and Gynaecology at the time of Silver Jubilee Celebrations of the Medical Council of India on the 13th February, 1959 at New Delhi |
| 43. Dr. G. K. Karandikar
(Faculty of Medicine) | Medical Education Pharmacology Seminar at the time of Silver Jubilee Celebrations of the Medical Council of India on the 13th and the 14th February, 1959 at New Delhi |
| 44. Dr. S. D. Ambegaonkar
(Faculty of Medicine) | Internal Medicine Seminar at the time of Silver Jubilee Celebrations of the Medical Council of India on the 13th February, 1959 at New Delhi |
| 45. Dr. A. B. Kothari
(Faculty of Medicine) | General Surgery Seminar at the time of Silver Jubilee Celebrations of the Medical Council of India on the 13th February, 1959 at New Delhi |
| 46. Shri G. P. Bhatt
(University Experimental
School) | National Seminar on Practical ways of Implementing the UNESCO Major Projects on Mutual Appreciation of Eastern and Western Cultural Values in Secondary Schools and Teachers' Training Institutions of India organised by the Indian National Commission for UNESCO, Ministry of Education, Government of India, New Delhi at Bombay from the 2nd to the 6th March, 1959 |
| 47. Professor (Miss) Olive Swoboda
Shrimati Swaran Dhawan
(Faculty of Social Work) | Annual General Conference of the Indian Psychiatric Society at Bombay from the 12th to the 15th March, 1959 |

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
48 Shri V. K. Bhatt (Faculty of Fine Arts)	Art Symposium at Bombay on the 16th and 17th March, 1959 under the joint auspices of Bombay Art Society, Art Society of India and Commercial Artists' Guild
49 Professor D. Subbarao (Faculty of Technology and Engineering)	Seminar on Architecture at New Delhi by the Lalit Kala Akadami from the 17th March, 1959
50 Shri H. C. Dholakia (Faculty of Arts)	Annual Session of the Indian Law Institute and the All India Law Conference at New Delhi from the 26th to the 29th March, 1959
51 Dr. A. H. Somjee (Faculty of Arts)	Seminar in American Studies arranged by the Indian School of International Studies at Delhi from the 26th March to the 28th March, 1959
52 Professor U. N. Singh (Faculty of Science)	Second Annual Session of the Society for advancement of Mathematical Studies at Nainital from the 17th May to the 17th June, 1959
53 Shri C. P. Singh (Faculty of Arts)	Research Seminar in Hindi arranged by Government of India, under the auspices of the University of Delhi at New Delhi from the 10th to the 21st May, 1959
54 Shri M. N. Bazmi (Faculty of Social Work)	Indian Conference of Social Work at Hyderabad in May, 1959

CHAPTER XXVI—GENERAL EDUCATION DEPARTMENT

1. Brief History

The General Education programme began in the University in 1953. After exploratory work for over three years, from June, 1957 it became a part of the curriculum for the preparatory classes as well as for the first and second year of the degree classes of the Faculties of Arts, Science, Commerce, Fine Arts and Home Science and for the Pre-medical and Pre-engineering classes. A separate department of General Education was created in July, 1957 to co-ordinate the work in the subject in all Faculties.

2. Buildings

The department of General Education is at present housed in the Faculty of Education and Psychology. Looking to its expanding work it needs a separate building. The Ford Foundation of U.S.A. has given the University a grant of 4,30,000/- U.S.A. dollars for the General Education Centre in the University. The construction of the building, which is estimated to cost about Rs. 15 lacs, was started in the year 1957-58 and an expenditure of about Rs 2 lacs was incurred during the year 1958-59.

3. Organisation

The department of General Education organised programmes for the Faculties of Arts, Commerce, Science (including Pre-Medical), Technology and Engineering, Home Science and Fine Arts. The programme was prepared from time to time and announced by the department.

The General Education Advisory Committee met from time to time during the year and gave directives on all important matters pertaining to the working of the programme such as the preparation of syllabus, preparation of reading material, tests and grades, etc. It also considered plans for the future development of the General Education Programme.

4. Students under the Programme

The total number of students under the General Education programme during the year under report was as follows :

I. Faculty of Arts			
F. Y. B. A.	3 divisions		313
S. Y. B. A.	2 divisions		284

2. Faculty of Science		
Pre-Medical		60
F. Y. B.Sc.		143
S. Y. B.Sc.		104
3. Faculty of Commerce		
F. Y. B. Com.	2 divisions	258
S. Y. B. Com.	2 divisions	237
4. Faculty of Technology		
F. E. New :	4 divisions	274
5. Faculty of Fine Arts and College of Indian Music, Dance and Dramatics		37
6. Faculty of Home Science		107
	Total	<u>1,817</u>

This is in addition to 1,150 Pre-University students who had a separate General Education programme.

5. Requirements

General Education has been made compulsory part of the curriculum and a satisfactory grade in General Education is necessary in order to pass the final examination of the Faculty. Every class had two periods per week on the time table for General Education. Attendance was compulsory and the requirements were similar to those in other subjects of specialization. The attendance at General Education was on the whole satisfactory (above 60%).

There was no annual examination in General Education as in other subjects; but there were three to five periodical tests on topics that were completed. The system of marking is: A (very good), or B (above average), or C (Pass), or D (not satisfactory or failure). A record is maintained of the grade obtained by each candidate in the various tests. Final grade is given on the basis of the student's performance in periodical tests. A candidate must obtain at least C grade to show that he has satisfactorily completed the General Education work of the year. Grades were announced on the Faculty notice-board from time to time. If a student got D grade in a particular test or was absent, he was allowed to improve his grade by taking the test again as early as possible.

6. Syllabus and Methods of Teaching

The syllabus is prepared in terms of topics as shown below and was recommended by the General Education Committee and approved by the Syndicate. The topics offered during the year under report are as follows:

First Year of the Three-Year Degree Course :

I. Humanities

1. Literature and Ethics :

- (i) Selected readings from the Epics: Ramayana and Mahabharata
- (ii) Modern Trends in Gujarati (Marathi) and Hindi literature
- (iii) Saints and Poets of India
- (iv) Ethics: Good and Evil; Reward and Punishment

2. Fine Arts:

History and appreciation of *any one* of Music, Painting or Architecture

II. Social Sciences

1. Social Psychology :

Problems of Marriage; Social Prejudice; Leadership; Public Opinion

2. Economics : Our Five Year Plans

3. Political Science : How our democracy works

4. Sociology : Our Social Institutions

III. Natural Sciences

1. Biological Science :

Life : (i) Story of Evolution

(ii) Heredity & Environment

2. Geology & Geography : Rocks and Soil : Our Mineral Wealth; Problems of Soil Conservation

3. Astronomy : Our Universe : The Sun and His Family

4. Chemistry : Chemistry in Everyday Life

Second Year of the Three-Year Degree Course :

I. Humanities

1. Literature and Philosophy :

- (i) Selected readings from the Epics : Ramayana and Mahabharata, and a comparative study of world Epics

- (ii) Saints and Poets of Gujarat, North India and South India
 (iii) Selected dialogues of Plato and other related readings
 (iv) The Psychology of Morals
2. Fine Arts : History and appreciation of *any one* of Drama or Sculpture
- II. *Social Sciences*
1. Economics :
- (i) Important doctrines : Socialism, Communism, etc. What is Socialistic Pattern of Society ?
 (ii) Selected Readings from Karl Marx : The Communist Manifesto
2. Political Science :
- (i) Selected readings from J. S. Mill : ' On Liberty '
 (ii) Political Doctrines : Individualism, Idealism, Fascism, etc.

III. *Natural Science*

1. Atom and the New Physics
 2. Chemistry in Everyday life

Each student did the topics from the other two fields in which he was not specializing. A student who was, for example, specialising in literature took the General Education programme in Social Sciences and Natural Sciences and so on.

Each topic was organised into three to four talks. Cyclostyled synopsis and reading material was supplied to help the students in understanding the talks. Each talk was followed by a short test which was usually a short-answer test. No text-books were prescribed for the General Education programme; but reference books were recommended to supplement the reading material supplied.

7. Staff

During the year the staff consisted of 1 Co-ordinator, 1 Assistant Co-ordinator, 5 Lecturers, 2 Class III and 1 Class IV servant. Some members of the staff from the various Faculties also participated in the preparation of reading material and shared the teaching work.

8. Final Grades

The following statement shows the total number of students Faculty-wise who took the tests and obtained or did not obtain satisfactory grades in General Education :

Statement of Final Grades : 1958-59

	<i>Faculty and Class</i>	<i>Students on roll</i>	<i>No. passed</i>	<i>No. failed</i>
1	Faculty of Arts	597	548	49
	F.Y.B.A. Humanities	95	92	3
	Social Sciences	218	212	6
	S.Y.B.A. 2 Divisions	284	244	40
2	Faculty of Science	307	284	23
	Pre-Medical	60	60	—
	F.Y.B.Sc.	143	135	8
	S.Y.B.Sc.	104	89	15
3	Faculty of Commerce	495	475	20
	F.Y.B.Com. 2 Divisions	258	254	4
	S.Y.B.Com. 2 Divisions	237	221	16
4	Faculty of Technology and Engineering	274	252	22
	F.E. New 4 Divisions			
5	Faculty of Fine Arts and Music College	37	29	8
	II Year	16	10	6
	III Year	21	19	2
6	Faculty of Home Science	107	105	2
	II Year	53	51	2
	III Year	54	54	—
Grand Total :		1,817	1,693	124

9. General Education in the Preparatory year

A student's work in the Preparatory year consisted of two parts (i) the Core programme comprising the English language and the three fields of Humanities, Social Studies and History of Science, and (ii) Optional subjects from his field of specialisation.

The details of the papers are as follows :

I.	English Language and Literature :	One paper
	(for all students : Arts, Science and Commerce)	100 marks
	(1) Language exercises and Composition	
	(2) Prose and Poetry (Text-books prescribed)	
II-A	Indian languages and literature	One paper
	(1) Hindi : Text Book prescribed (50 marks)	100 marks

- (2) Gujarati or Marathi or Sindhi (50 marks)
or Additional English—(Text-books
prescribed)

Note: The students will have to pass in the
total of both the sections.

- B. Art appreciation: any one: of Music,
Painting, Dramatics and Architecture (only period-
ical tests)
One paper
100 marks
- III. Social Studies (for all students: Arts, Science and Commerce)
One paper
100 marks
- IV. Natural Science (for all students of Arts and Commerce only)
One paper
100 marks
- OR
(for Science students)
Physics
- Note: Under paper V, VI, VII the student should
select subjects required for his degree courses.
- V. English literature One paper
100 marks
- Text books prescribed for General reading and
comprehension only
- OR
Mathematics
- VI. Indian History and Civilization One paper
100 marks
- OR
Chemistry
- OR
Commercial Geography
- VII Second Language: (Sanskrit, Persian, French)
One paper
100 marks
- OR
Book-Keeping and Commercial Arithmetic
- OR
Geography
- OR
Biology

Important:

- (1) In all there will be seven papers for every student.
(2) While selecting papers from IV to VII students must consult
the teachers for requirements of the degree courses.

CHAPTER XXVII--STUDENTS' WELFARE ACTIVITIES

I. University Halls of Residence

(1) Buildings:

During the year 1,017 students were in residence. In all there are
now 9 Halls of Residence, including Shri Keshavprasad Hostel, a rented
building. However, a large number of students who were admitted to
different courses could not be admitted because of want of space.

(2) Number of students in the Halls:

The total number of students in the Halls at the end of the year
1958-59 was 1,117 as against 1,066 in the last year as shown in the follow-
ing statement:

Faculty or College		Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Maharshi Arvind Hall	Shri Dadabhai Naoroji Hall	Dr. Jivraj Mehta Hall	Professor T. K. Gajjar Hall	Shri Keshavprasad Hostel	Shrimati Sarojini Devi Hall	Shrimati Hansa Mehta Hall	Total
1	Arts	9	10	11	3	12	4	-	24	3	76
2	Science	12	18	16	10	17	18	-	19	7	117
3	Commerce	12	18	12	7	12	10	-	-	-	71
4	Education and Psychology	-	8	9	6	5	12	-	14	1	55
5	Medicine	15	11	19	2	52	20	-	22	2	143
6	Technology and Engineering	41	39	40	27	32	63	27	-	-	269
7	Fine Arts	-	7	6	-	3	2	-	2	6	26
8	Home Science	-	-	-	-	-	-	-	63	65	128
9	Social Work	-	4	8	1	-	7	-	4	5	29
10	Preparatory Classes Unit	27	30	25	10	20	24	-	42	11	189
11	College of In- dian Music, Dance and Dra- matics	2	2	-	1	-	-	-	8	1	14
Total		118	147	146	67	153	160	27	198	101	1,117

(3) Administration :

Administration of the Halls was carried on with the help of the Advisory Committee of the Halls of Residence and the Warden's Committee. One of the Wardens continued to work as Chief Warden. It was decided to set-up central Committees for various activities and general direction of resident students. This year six committees were functioning to look after and to organise student activities viz. (1) Central Committee, (2) Central Food Committee, (3) Central Committee for Cultural Activities, (4) Central Sports Committee, (5) Central Committee for Accounts and Auditing and (6) Central Committee for Students' Health. The formation of these committees has considerably helped the organisation and regulation of student life because these committees have introduced the principle of self-government in the Halls of Residence under the guidance and supervision of the Wardens' Committee.

(4) Recreation and Other Amenities :

All the Halls have been provided with well-equipped reading-rooms. They have small libraries also. Students are substantially contributing towards the purchase of newspapers and magazines. The University has appointed two Honorary Medical Officers—one for Men's Halls and the other for Women's Halls. These medical officers visit each Hall twice a week and give free medical advice to the students. Arrangements are also made to dispense ordinary medicine to the students on a nominal charge.

(5) Cultural and Social Activities :

As in the previous years the cultural and social activities play an important part in the building of the character of students. These activities are carried out by the following committees with the approval of the Central Committee :

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

In each Hall, meetings and talks are arranged ; sometimes musical evenings are organised. The small groups for study purposes meet in the Common Room. Games, tournaments and debates are held. During the year, Inter-Hostel Debate and sports were also arranged on Independence

Day on the 15th August, 1958 and Annual Day of the Hostels on the 15th February, 1958. They were the highlights of the corporate life of all the students. The following are some of the important items of interest :

1. A dinner was arranged on the 15th August, 1958, Independence Day ;
2. A general musical programme was held in Shri Dadabhai Naoroji Hall on the 8th January, 1958 ;
3. A general celebration of Republic Day and dinners in different Halls were arranged on the 26th January, 1958.

2. Medical Examination of Students

The University arranges during the first term of every academic year a medical check up of all students who are admitted for the first time to the University and of all those who are required to undergo the follow-up work according to the previous year's report. The check up is conducted in the Shri Sayaji General Hospital, Baroda by a board of specialists in August-September. The results of the examination are recorded in a special form maintained for each student and communicated to each student on a report card. Cases requiring regular medical attention are separated and referred to the respective specialists for examination and advice. These cases are reported to the Heads of respective institutions to help the students in getting proper treatment and attention. The guardians of the students concerned who were found to be suffering from Tuberculosis or heart diseases were advised to give them immediate treatment for the diseases. During the year the medical check up was done from the 18th August to the 30th September, 1958 and in all 3,438 students—2,864 boys and 574 girls—were examined.

3. Physical Education

(1) *Staff* : This University has a separate department of Physical Education to organise and conduct various physical education activities such as A.C.C , Major Games, Athletics, Wrestling, Swimming, Boating, Labour and Social Service Camps and Campus Work Projects. During the year four qualified Physical Instructors including one Lady Physical Instructor were working in this department under the supervision and guidance of the Superintendent of Physical Education who also acts as the Ex-Officio Secretary of the University Board of Sports.

(2) *Auxiliary Cadet Corps* : A.C.C. training is compulsory for the students except those who are selected for Major Games, Swimming, Boating

and N.C.C. In all 1,543 students including 304 girl students were given training in Drill, P.T., Games, Sports, Mass P.T., Road March and Manual work. Special training was also imparted to selected boy cadets in Vaulting and Tumbling. Training was imparted by 5 Group Commanders, 8 A.C.C. Officers and 85 Student Leaders under the command of the Officer Commanding, 6th Bombay Battalion N.C.C. Baroda.

(3) *Major Games*: During the year more than 400 students including girls, from various Faculties and Institutions participated in Major Games such as Cricket, Hockey, Foot Ball, Volley Ball, Basket Ball, Kho Kho, Hu-Tu-Tu, Tennis, Badminton, Table-Tennis, Throw Ball, Net Ball and Teni-Koit. These activities were organised and conducted by the Physical Instructors and the Officers-in-charge of Cricket, Tennis and Badminton.

(4) *Swimming and Boating*: During the year, 609 students in Swimming and 184 students in Boating participated. These two activities were organised and conducted by the Officers-in-charge Swimming and Boating and the trainers. Swimming and Boating competitions were also held during the second term of the year.

(5) *University Teams*: The University Swimming, Cricket, Hockey, Foot Ball, Volley Ball, Basket Ball, Tennis, Badminton, Table-Tennis, Kho Kho (Men and Women), Hu-Tu-Tu, Athletics, Wrestling and Boxing teams were given training by the Physical Instructors, Officers-in-charge of respective activities and some experts.

(6) *Annual Sports*: As a part of the University Youth Festival, Annual Sports were held on the 12th, 13th and the 14th of December, 1958. In all 500 students men as well as women from the various Faculties and Institutions participated in different Track and Field events. Separate competitions in Swimming, Wrestling and Boxing were also conducted. Dr. Jyotindra M. Mehta, Vice-Chancellor of the University gave away the prizes to the winners of the various competitions.

(7) *Individual championship winners*: Individual Championships in Athletics, Swimming and Boating were won by the students as under:

Winners	Faculty/Institution	Trophy
Athletics		
1. Shri S. P. Gupta	Faculty of Technology and Engineering	Shield

Winners	Faculty/Institution	Trophy
2. Kumari Pramila T. Desai	Faculty of Arts	Shield
Swimming		
3. Shri M. S. Vakil	Faculty of Technology and Engineering	Shrimati Hansa Mehta Shield
4. Kumari Sheela Patel	Faculty of Home Science	Dr. Jivraj N. Mehta Shield
Boating		
1. Shri Ashok V. Katdare	Faculty of Commerce	Shrimati Hansa Mehta Shield
2. Kumari Bakul Rao	Faculty of Arts	Dr. Jivraj N. Mehta Shield

(8) *Inter-University Tournaments*: This year thirteen University teams viz. Swimming, Cricket, Foot Ball, Hockey, Badminton, Volley Ball, Kho Kho (Men and women) Hu-Tu-Tu, Wrestling, Boxing, Athletics and Table-Tennis participated in the Inter-University tournaments.

The All India Inter-University Kho Kho tournaments (Men and Women) were held at Baroda from the 17th to the 20th January, 1959 under the auspices of the University. In the Men's tournament Universities of Poona, Nagpur, Mysore, Jabalpur, Vikram, Sardar Vallabhbai Vidyapeeth and Baroda participated, and in the Women's Tournament Gujarat, Poona, Nagpur and Baroda participated. In the finals of the Kho Kho tournament (Men) Poona defeated Baroda the last year's holders and won the championship. The Women's championship was won by Nagpur. Baroda teams (Men and Women) were runners-up in both the tournaments. Dr. Jyotindra M. Mehta, Vice-Chancellor of the University, presided over the prize-distribution function and gave away the certificates, prizes and trophy to the winners.

4. National Cadet Corps

During the year under report, the following N.C.C. Units carried out their usual activities:

- (1) 6th Bombay Battalion N.C.C.
- (2) 5th Bombay Girls Troop N.C.C.
- (3) 18th Bombay Engineering Platoon N.C.C.
- (4) 20th Bombay Medical Company N.C.C.
- (5) 22nd Bombay Girls Troop N.C.C.

The Government of Bombay have agreed to pay as grant 50% of the approved expenditure of Rs. 3,69,750/- for the buildings of the 6th Bombay Battalion, 5th Bombay Girls Troop and the 18th Bombay Engineering Platoon. Construction work of the buildings for the last two was started during the year.

The activities carried out by each unit are given below :

(1) 6th Bombay Battalion N.C.C. :

This Unit of 4 Coy Battalion continued its activities during the year. Its authorised strength is 15 Officers and 625 cadets. The basic training was imparted to the cadets from the 1st July, 1958 to the 15th February, 1959.

The annual Training Camp was held at Junagadh from the 24th December, 1958 to the 6th January, 1959 and was attended by 9 officers and 500 cadets. A high standard of military training upto company level was imparted to the cadets and night operations were also carried out. The camp was visited by several distinguished persons.

The cadets of this battalion also attended a Social Service Camp held at Anand from the 4th to the 17th May, 1959 for Gujarat region. This Unit was declared as the best Unit in ' Shooting ' and ' Guard Mounting ' competitions at the Camp.

' B ' and ' C ' Certificate examinations for the 2nd and the 4th year cadets respectively were held at Baroda from the 16th to the 19th January, 1959. The total percentage of successful candidates in ' B ' certificate was 86% and in ' C ' certificate 92% which was the highest average in Bombay State.

(2) 5th Bombay Girls Troop N.C.C. :

The Unit started its training in June, 1958 with an actual strength of 3 officers and 135 cadets. It had its Annual Training Camp at Khadakwasla from the 28th December, 1958 to the 8th January, 1959 and was attended by 2 officers and 122 cadets. It held two combined cadre and social service camps from the 29th October to the 9th November, 1958 at Goregaon and from the 4th May to the 15th May, 1959 at Lonavala. The first camp was attended by 2 officers and 53 cadets. The troop won the Inter-Troop Line Dressing and Best Shooting Trophies. One officer and 23 cadets attended the second camp.

The Unit took part in Flag March arranged on the 6th December, 1958 during N.C.C. Week. The cadets of the Unit were taken to Ajwa and Pavagadh for map-reading excursions.

The Unit was inspected by Dr. J. M. Mehta, Vice-Chancellor, Shri Hitendra Desai, Minister for Education, Bombay State and Comdr. N. H. K. Vachha, Circle Commander No. 1 Circle C.C. during the year.

The following is the result of G Part I and G Part II certificate examinations :

Examination	Number appeared	Number passed
G Part I	29	24
G Part II	1	1

The following are the distinctions of the Unit :

- (i) U. O. Kumari K. C. Patel and Sgt. Kumari Dhruvi Chhaya were selected for Commission in the Senior Wing Girls Division;
- (ii) U. O. Kamala Lalchandani and cadet Mrudula Trivedi won the 1st and the 2nd prize respectively in Shooting competition held at combined cadre and social service camp, Goregaon ;
- (iii) U. O. Kamala Chandani won the first prize in reveille race during the combined Annual Training Camp at Khadakwasala ;
- (iv) 2/Lt. Kumari K. C. Patel and Sgt. Kumari Suhagini Parlikar were selected to attend the All India Summer Training Camps at Dehradun and Bangalore respectively.

(3) 18th Bombay Engineering Platoon N.C.C. :

The Unit enrolled 60 cadets and imparted the training to them from the 2nd July, 1958 to the 15th January, 1959. The annual training camp was held at Kirkee from the 24th December, 1958 to the 6th January, 1959. The 6th combined cadre and social service camp was held at Aarey Milk Colony at Goregaon, Bombay from the 27th October to the 9th November, 1958 and was attended by 1 N.C.C. Officer and 31 cadets. The 7th combined cadre and social service camp was held at Vallabh Vidyanagar, Anand from the 4th to the 17th May, 1959 and one officer and 5 cadets took part in the camp.

During the annual camp of the Unit, ' B ' and ' C ' certificate examinations were conducted on the 3rd and the 4th January, 1959. The results of the examinations are as under :

<i>Examination</i>	<i>Number appeared</i>	<i>Number passed</i>
'B' certificate	27	24
'C' certificate	3	3

The Unit took part in the N.C.C. Day Celebrations held on the 7th December, 1958. Sgt. J. L. Chhaya and L/CP B. V. Tambe were awarded 'Best Shooting Shield' of the Unit.

The Annual Inspection was carried out on the 3rd September, 1958 by Lt. Col. J. D. Karwal, Commander, 6/5 Gorkha Rifles (FF). The Unit was also inspected on the 28th February, 1959 by Commander N. H. K. Vachha, in Circle Commander No. 1 Circle Cadets Corps.

(4) *20th Bombay Medical Company N.C.C. :*

This Unit was started from the 23rd July, 1956 with an authorised strength of 60 cadets and one officer. A detachment of this Unit with 60 cadets was started in the year 1957-58 in B. J. Medical College, Ahmedabad. The Unit enrolled 60 cadets this year and the parades were started from the third week of June, 1958.

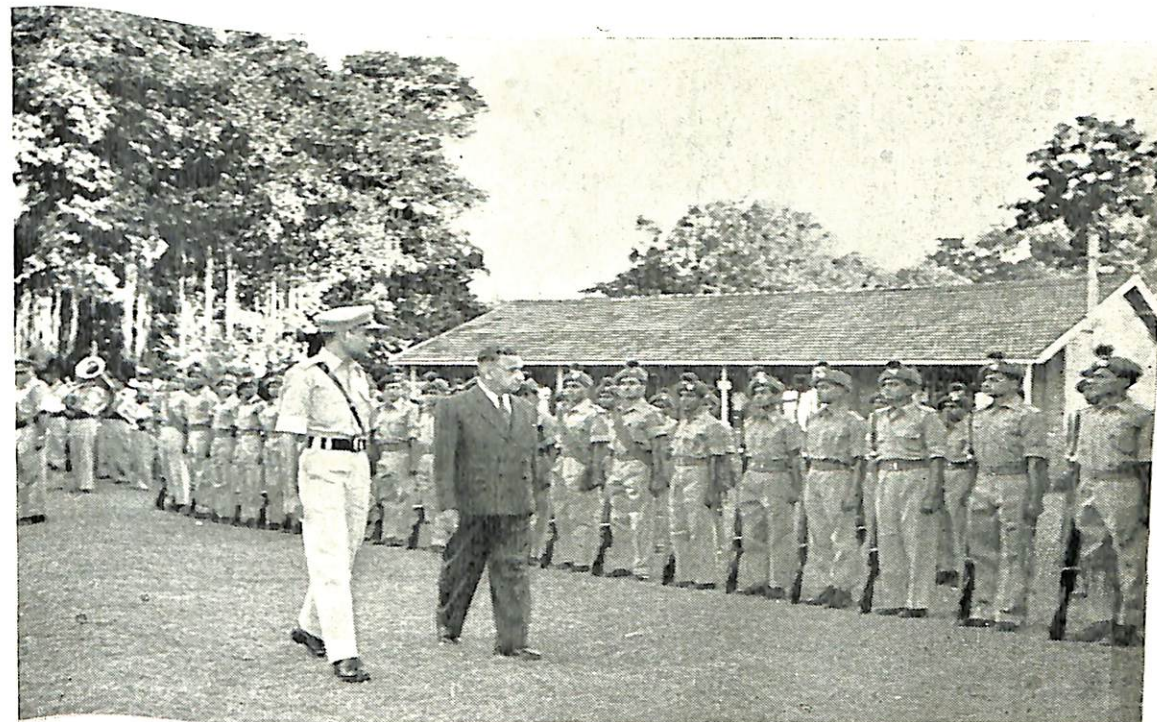
The annual training camp was held at Deolali from the 24th December, 1958 to the 6th January, 1959 and was attended by 1 officer and 76 cadets. It was visited by Commander N. H. K. Vachha, IN. Circle Commander, Lt. Col. Mohinder Singh, Officiating Commandant, School of Artillery, Deolali and Dr. S. P. Sethna, Surgeon General to the Government of Bombay.

The 6th Combined Cadre and Social Service Camp held at Aarey Colony, Bombay in October-November, 1958 was attended by one officer and 48 cadets of this Unit. U/O B. P. Udwardia of the Unit was awarded the 'Best Medical Social Worker Cadet' medal during this camp.

The 7th combined cadre and social service camp held at Vallabh Vidyanagar in May, 1959 was attended by one officer and 15 cadets of this Unit. CSM B. M. Agravat won the 'Best Medical Social Worker Cadet' medal.

The Unit celebrated the 'N. C. C. Week' in December, 1958 along with other Units in the station Cadets of the Unit obtained prizes in various competitions.

The Company Day was celebrated in February, 1959. Sgt. R. S. Kundargi was adjudged as the best cadet of the year. Prizes and trophies were distributed by Comdr. N. H. K. Vachha, IN.



Dr. C. D. Deshmukh inspecting the Guard of Honour by N. C. C. at the time of Annual Convocation

'B' and 'C' certificate examinations were held in January-February, 1959. The result is as under :

<i>Examination</i>	<i>Number appeared</i>	<i>Number passed</i>
'B' certificate	38	21
'C' certificate	17	12

Lt. General B. Chowdhary, Director General of Armed Forces, Medical Services, inspected and took salute at the ceremonial parade held on the 9th February, 1959 at Ahmedabad.

Lt. B. D. Misra, N. C. C. Officer resigned in September, 1958 and left the Unit as he was selected for further studies in U. S. A.

(5) *22nd Bombay Girls Troop N.C.C.:*

This Troop was raised in 1957 and started functioning from 29th June, 1958. Ninety girl cadets were enrolled from the Maharaja Sayajirao University of Baroda and 45 cadets from the S.N.D.T. University under the instructions from the Director of Education, Bombay State, Poona. The training was imparted to the cadets from the 29th June, 1958 to the 15th February, 1959.

A combined Annual Training Camp for whole Bombay State, held at Khadakwasala (near Poona) from the 28th December, 1958 to the 8th January, 1959 was attended by 2 N.C.C. officers and 52 girl cadets of this troop. Sgt. (Miss) Roshan Gazdar of this Unit was declared as the Best Turned Out Cadet, among all the girl cadets of the whole Bombay State.

The 2nd Combined Cadre and Social Service Camp was held at Aarey Milk Colony, Goregaon, Bombay from the 29th October to the 9th November, 1958 for whole of Bombay State. One Lady Officer and 54 girl cadets of this Unit attended the same.

The 3rd Combined Cadre and Social Service Camp held at Lonavala from the 4th to the 15th May, 1959 was attended by 52 cadets of this troop.

Three Lady teachers from the Maharaja Sayajirao University of Baroda have been commissioned in National Cadet Corps on completion of their Pre-Commission Training Course of three months at Delhi Cantonment.

5. Students' Common Hall :

Two students Common Rooms—one for men students and the other for women students have been built on the campus. Committees consisting of the members of the teaching staff look after the arrangements in the Common Rooms which provide reading materials like dailies, periodicals and a small collection of books as well as facilities for certain indoor games such as Carrom, Draught, Chess and Table Tennis. Cafeterias are also attached to both the rooms. They are also used for meetings of various students' associations, social functions, lectures, indoor games and tournaments.