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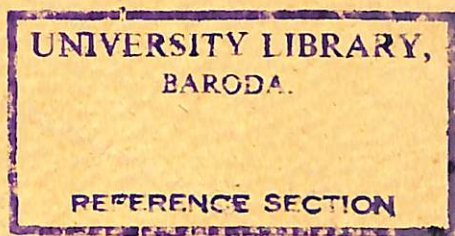
M.S. University of Baroda

Eleventh  
Annual Report

1959-60



**The Maharaja Sayajirao University  
of Baroda**



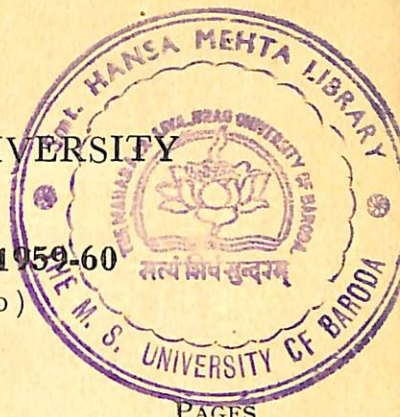
**ELEVENTH ANNUAL REPORT**

**1959-60**



**BARODA**





THE MAHARAJA SAYAJIRAO UNIVERSITY  
OF BARODA

ELEVENTH ANNUAL REPORT, 1959-60

( 1st July, 1959 to 31st March, 1960 )

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

# THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



ELEVENTH ANNUAL REPORT, 1959-60

## 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 Pratapsinhrao 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 at 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 in 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 for the academic years 1949-50 and 1950-51. During this period, new courses and standards of admissions and examinations were prescribed and they were introduced year after year from June, 1951 onwards. The first examinations of the University were held in March-April, 1951.

Since then the Faculties have made considerable progress. The old courses have been thoroughly revised, special emphasis being laid on periodical tests 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 Intermediate College was discontinued from the year 1958-59 and instead the Preparatory Unit was started, and it conducts Preparatory Courses in Arts, Science and Commerce. The development for the preceding years are described in the ten Annual Reports published so far. This eleventh Annual Report covers the period from the 1st July, 1959 to the 31st March, 1960 and is submitted to the Senate in accordance with section 24 ( 2 ) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.



## CHAPTER I—GENERAL

### 1. Institutions in the University

Constituent and 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 ) Oriental Institute : Provides facilities for research work in Sanskrit and Ancient Indian Culture and undertakes publication work in Gujarati, Marathi and Sanskrit.
- ( c ) Baroda Sanskrit Mahavidyalaya : Provides courses leading to the degrees of 'Shastri', 'Acharya' and guidance for research for the degree of 'Vichaspati', 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 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 courses leading to the 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., D.C.P. and D.G.O. 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 Textile Chemistry and 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.
- ( 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 courses 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 advanced diploma course in Dance and a Three Year S.S.C. Course in Vocal Music.
- ( 8 ) Faculty of Home Science : Provides courses leading to the degrees of B.Sc. ( Home ) and M.Sc. ( Home ) and the Post-graduate diploma in Nursery School Education. The Chetan Balwadi with a Kindergarten class is also attached to the Faculty for experiments and observations in Child Development.
- ( 9 ) Faculty of Social Work : Provides a Post-graduate course leading to the degree of M. S. W.



- (10) Preparatory 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 1959-60

Institution	*Post-graduate courses		Degree courses		Diploma courses		Total		Grand Total 1959-60	Grand Total 1958-59	Grand Total 1957-58
	Men	Women	Men	Women	Men	Women	Men	Women	10	11	12
1 Faculty of Arts	152	30	638	309	—	—	790	339	1129	1031	811
2 Faculty of Science	139	16	442	60	—	—	581	76	657	562	520
3 Faculty of Education and Psychology	93	25	104	56	21	30	218	111	329	289	230
4 Faculty of Commerce	73	1	850	12	1	—	924	13	937	665	509
5 Faculty of Medicine	70	8	259	52	—	—	329	60	389	407	407
6 Faculty of Technology and Engineering	21	—	1310	14	264	—	1595	14	1609	1592	1418
7 Faculty of Fine Arts	12	—	69	13	†47	†7	128	20	148	119	92
8 Faculty of Home Science	—	19	—	288	—	—	—	307	307	243	216
9 Faculty of Social Work	45	17	—	—	—	—	45	17	62	65	46
10 Preparatory Unit	—	—	1051	219	—	—	1051	219	1270	1230	1150
11 College of Indian Music, Dance and Dramatics	2	5	16	13	—	—	18	18	36	38	33
12 Baroda Sanskrit Mahavidyalaya	—	—	9	1	24	—	33	1	34	42	34
13 Polytechnic	—	—	—	—	818	1	818	1	819	575	319
Total ..	607	121	4748	1037	1175	38	6530	1196	7726	6858	5785

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

† Includes Post-diploma students also.



Statement showing Non-University students at the commencement of the year 1959-60

Institution	Men	Women	Grand Total 1959-60	Grand Total 1958-59	Grand Total 1957-58
<b>(a) Diploma Courses:</b>					
1 College of Indian Music, Dance and Dramatics	194	132	326	480	419
<b>(b) Certificate Courses:</b>					
1 Faculty of Technology and Engineering	191	—	191	155	106
2 Faculty of Fine Arts	14	4	18	16	11
3 Baroda Sanskrit Mahavidyalaya	35	9	44	54	49
<b>(c) S.S.C. Courses:</b>					
1 University Experimental School	231	167	398	393	365
2 Technical High School	—	—	—	—	61
3 S.S.C. Music Classes	—	—	—	—	—
<b>(d) Nursery Courses:</b>					
1 Chetan Balwadi	29	31	60	60	60
2 Kindergarten	11	14	25	25	23
Total	705	357	1062	1183	1094

## 3. Special features of the year

## (1) Progress of important Research Projects

Several departments of the University are engaged in research work. 158 students registered in previous years and 46 registered this year for M.Ed. and Ph.D. degrees and several teachers carried on research work..

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

Faculty/ Department	Research Scheme	Name of the Financing body
<b>FACULTY OF ARTS</b>		
<i>Economics</i>	(i) Socio Economic Survey of Village Saraswani	Government of Bombay, Education Department
	(ii) Evaluation of Crop-loan system in Broach District	Ford Foundation through the Department of Economics, Bombay University.
<i>Hindi</i>	Contribution of Gujarat to Hindi Literature	University Grants Commission
<i>History</i>	Socio-Historical Survey of the Muslim Population of Gujarat	University Grants Commission
<b>FACULTY OF SCIENCE</b>		
<i>Bio-chemistry</i>	(i) Studies in Tissue Culture	Indian Council of Medical Research
	(ii) Studies in Human Lactation	Indian Council of Medical Research
	(iii) Study of C <sub>4</sub> Metabolism in A. Niger	Council of Scientific and Industrial Research
	(iv) Studies on Food Yeast	Bombay State Industrial Research Committee
<i>Physics</i>	Optical Studies on Etched Surfaces of Metal and Alloy Crystals	Council of Scientific and Industrial Research
<i>Zoology</i>	(i) Fat Metabolism in Muscle and Blood	Council of Scientific and Industrial Research
	(ii) Histophysiological Studies on the Diaphragm	Council of Scientific and Industrial Research
<b>FACULTY OF EDUCATION AND PSYCHOLOGY</b>		
<i>Education and Psychology</i>	(i) Vocational and Educational Guidance	Ministry of Education, Government of India



<i>Faculty/Department</i>	<i>Research Scheme</i>	<i>Name of the Financing body</i>
<i>Education and Psychology</i>	(ii) Rural Project Education	Ministry of Education, Government of India
	(iii) Construction and Standardization of Achievement Tests	Ministry of Education Government of India
	(iv) Inquiry into the Psychological Factors related to Adolescent Adjustment	Indian Council of Medical Research
	(v) Evaluation of Establishment of Multipurpose Schools	Government of Bombay Education Department

## FACULTY OF COMMERCE

<i>Commerce</i>	(i) Small Scale and Cottage Industries	Research Programme Committee, Planning Commission
	(ii) Survey of Credit Society in Baroda District (Co-operative Credit Movement in Sinor Mahal)	District Co-operative Bank Baroda

## FACULTY OF SOCIAL WORK

<i>Social Work</i>	(i) Problems of Working Mothers in Baroda City	University Grants Commission
	(ii) Survey of the Graduates of the Schools of Social Work	University Grants Commission

(B) The following research schemes financed by the University are in progress :

<i>Faculty/Department</i>	<i>Research Scheme</i>
FACULTY OF ARTS	
<i>Economics</i>	(i) Tax Treatment of Hindu undivided Family
	(ii) Consumers' Finance Survey
	(iii) Enquiry into the extent of use of Fair Price Shops
<i>History</i>	History of Gujarat under the Muslims
FACULTY OF SCIENCE	
<i>Bio-Chemistry</i>	Biosynthesis of Carotenoids

<i>Faculty/Department</i>	<i>Research Scheme</i>
<i>Botany</i>	(i) Flora of Pavagadh
	(ii) Study of Effect of Some Growth Regulating Substances on Plants
	(iii) Study of Floristic Composition of various Gardens in Baroda
<i>Chemistry</i>	(i) Interaction of Arsanilic Acid and Stabanilic Acid, etc.
	(ii) Effect of Structure on Transition Temperatures
<i>Statistics</i>	(i) Medical Examination Report
	(ii) Studies in Vital Statistics—Baroda
	(iii) Statistical Analysis of Preparatory Science

## FACULTY OF MEDICINE

<i>Faculty of Medicine</i>	(i) Inquiry into the study of Urinary Excretion of Sulphur
	(ii) Skin Temperature of Indians of different Dressing Habits
	(iii) (a) Inquiry into Urinary Excretion of Protein Fractions in Experimental Nephrosis and Effect of Diet on it, and
	(b) Inquiry into the Investigations on the Effect of different Foods on the Urinary Quinine Excretion Effect, the Gastric Secretion, etc.
	(iv) Assessing the results of Sterilization Operation done during last ten years.

## FACULTY OF TECHNOLOGY AND ENGINEERING

*Electrical Engineering* Analysis of Transistor Circuits

## (2) Important Events

- (i) The University decided to change its financial year from July-June to April-March from the 1st April, 1960. Consequently the eleventh Annual Report covers the period from the 1st July, 1959 to the 31st March, 1960.
- (ii) The following new post-graduate courses were started in the University in the academic year 1959-60 :
- (a) M.Sc. course in Physical Chemistry
  - (b) Diploma in Educational Administration
  - (c) Diploma in Applied Linguistics
  - (d) Diploma in Nursery School Education



- (iii) Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India performed the opening ceremony of the new building of the Faculty of Social Work on the 15th August, 1959.
- (iv) A Symposium on "Exploration Geophysics" was held on the 15th and the 16th August, 1959 under the auspices of the University. It was inaugurated by Professor Humayun Kabir on the 15th August, 1959.
- (v) A Special Convocation was held on the 17th October, 1959 in the University Gardens when the honorary degree of Doctor of Letters was conferred on Shrimati Hansa Mehta, Ex-Vice-Chancellor of the University. This was followed by the Ninth Annual Convocation. Shri Sri Prakash, Governor of Bombay State delivered the convocation address.

The following degrees and diplomas were conferred on that day :

Sr.No.	Degree/Diploma	In Person	In Absentia	Total
1	Ph.D. ( Arts )	2	1	3
2	Ph.D. ( Science )	2	2	4
3	M.D.	3	2	5
4	M.S.	1	1	2
5	M.A.	26	13	39
6	Acharya	1	—	1
7	B.A.	158	38	196
8	Shastri	2	—	2
9	Diploma in Library Science	7	6	13
10	M.Sc. ( by papers )	41	12	53
11	B.Sc.	95	30	125
12	M.Ed. ( by thesis )	2	1	3
13	M.Ed. ( by papers )	10	8	18
14	B.Ed.	42	66	108
15	Diploma in Guidance and Counselling	7	4	11
16	M.Com.	3	1	4
17	B.Com.	88	41	129
18	Diploma in Banking	6	1	7
19	M.B.,B.S.	7	10	17



Governor Shri Sri Prakash and Dr. (Shrimati) Hansa Mehta during Convocation



<i>Sr.No.</i>	<i>Degree/Diploma</i>	<i>In Person</i>	<i>In Absentia</i>	<i>Total</i>
20	Diploma in Ophthalmology	1	—	1
21	Diploma in Anesthesiology	1	—	1
22	Diploma in Pediatrics	1	1	2
23	B.E.	104	50	154
24	B.Text. ( Engg. )	10	1	11
25	B.Text. ( Tech. )	—	1	1
26	M.A. ( Fine )	1	2	3
27	M. Mus.	1	—	1
28	B.A. ( Fine )	4	3	7
29	B.Mus.	4	1	5
30	Diploma in Museology	—	4	4
31	M.Sc. ( Home )	2	1	3
32	B.Sc. ( Home )	18	12	30
33	M.S.W.	16	10	26
		666	323	989

- ( vi ) Shri G. L. Mehta, Chairman of the Industrial Credit and Investment Corporation of India Limited inaugurated the Tenth University Youth Festival on the 29th November, 1959.
- ( vii ) The Thirty-Fifth Annual meeting of the Inter-University Board of India was held on the 18th, 19th and the 20th December, 1959. Shri Hitendra Desai, Minister for Education, Government of Bombay gave the inaugural address.
- ( viii ) The Nineteenth Annual Conference of the Indian Society of Agricultuarl Economics was held under the auspices of the University on the 25th, 26th and the 27th December, 1959. Dr. Jyotindra M. Mehta, Vice-Chancellor, was Chairman of the Reception Committee. Shri H. V. R. Iyenger, Governor, Reserve Bank of India, inaugurated the Conference and Dr. S.R. Sen, Joint Secretary, Planning Commission, Government of India, was the President of the Conference.
- ( ix ) The All India English Teachers' Conference was held on the 29th, 30th and the 31st December, 1959 under the auspices of the University. Dr. Jyotindra M. Mehta, Vice-Chancellor inaugurated the Conference. Professor P. K. Guha was the President of the Session.



- ( x ) The Twelfth Annual Conference of the Otolaryngologists of India was held under the auspices of the University on the 4th, 5th and the 6th January, 1960. Dr. Jyotindra M. Mehta, Vice-Chancellor, was Chairman of the Reception Committee. Dr. R. N. Misra was the President of the Conference.
- ( xi ) The Office of the Joint Board of Vice-Chancellors of the Statutory Universities in the State of Bombay was at Baroda during the year 1959-60 when the Vice-Chancellor was the Chairman and the Registrar was the ex-officio Secretary of the Board. The meeting of the Board was held on the 8th February, 1960 under the Presidentship of Dr. J. M. Mehta, Vice-Chancellor.

#### 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

Professors : Dr. I. P. Desai  
Lecturers : Sarvashri A. C. Patel, J. Eapen, S. Bhagwansinh, A. J. Pandya, M. G. Gupta, I. S. Dave, H. Prapanna, P. J. Shah, N. R. Sheth, M. M. Shah & Rajendrakumar

##### FACULTY OF SCIENCE

Readers : Dr. V. V. Modi and Dr. C. H. Pathak  
Lecturers : Sarvashri V. K. Shah, S. N. Padate, I. R. Patel, S. D. Pishwikar and C. L. Talesara

##### FACULTY OF COMMERCE

Professor : Shri B. G. Shah  
Reader : Dr. D. K. Shukla  
Lecturers : Sarvashri R. S. Mehta and K. C. Mehta

##### FACULTY OF TECHNOLOGY AND ENGINEERING

Lecturers : Sarva Shri S. K. Mehta, C. K. Sheshadri, P. C. Shah, V. C. Shah and N. C. Shah

##### FACULTY OF FINE ARTS

Lecturers : Shri M. D. Pandya

##### FACULTY OF HOME SCIENCE

Reader : Kumari P. S. Chari  
Lecturers : Shrimati T. N. Bhagat and Kumari K. J. Randive

##### FACULTY OF SOCIAL WORK

Reader : Shri G. G. Dadlani  
Lecturers : Shri J. K. Motwani, Kumari J. P. Patel and Kumari S. Dube

##### COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

Reader : Shri M. P. Khokar

##### ( 2 ) *Appointments to new teaching posts :*

The following appointments were made during the year on the new posts sanctioned from the 1st July, 1959 or thereafter :

##### FACULTY OF ARTS

Professor : Shri C. P. Singh  
Reader : Shri S. C. Malik  
Lecturers : Shri G. S. Monga and Dr. A. S. Nagar

##### FACULTY OF SCIENCE

Reader : Dr. S. L. Bafna

##### FACULTY OF EDUCATION AND PSYCHOLOGY

Reader : Dr. D. M. Desai  
Lecturers : Shrimati M. S. Warty, Kumari S. D. Kotwal and Shri J. J. Patel

##### FACULTY OF TECHNOLOGY AND ENGINEERING

Lecturer : Shri P. V. Parikh

##### FACULTY OF FINE ARTS

Lecturers : Sarvashri J. M. Bhatt, R. A. Parimoo, S. M. Nair and P. K. Hatgaonker

##### FACULTY OF HOME SCIENCE

Lecturer : Kumari Rupa K. Mehta

##### COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

Lecturer : Kumari N. Katpitia



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

## FACULTY OF ARTS

Lecturers : Sarvashri B. C. Parekh and S. B. Majmudar

## FACULTY OF SCIENCE

Reader : Dr. V. G. Phatak

Lecturers : Shri K. S. Scaria and Dr. V. V. Rao

## FACULTY OF FINE ARTS

Professor : Professor Markand Bhatt

## FACULTY OF HOME SCIENCE

Lecturer : Kumari Saroj Jain

## FACULTY OF SOCIAL WORK

Reader : Shrimati P. M. Bhatt

Lecturers : Kumari S. R. Contractor, Sarvashri D. F. Pereira and M. N. Bazmi

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

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

Name	Designation	Type of facility	Qualifications or experience acquired
1. Shri G.P. Bhatt	Principal, University Experimental School	Duty leave with basic pay (under O. 209B) from 29-7-1959 to 13-3-1960	Diploma in Educational Administration from the South California University.
2. Shri R.C. Patel	Lecturer in Mechanical Engineering	Leave without pay from 2-9-1957 to 3-9-1959 in accordance with Ordinance 209A	M. Sc. (Thermodynamics) Birmingham A. R. C. S. T. (Mech.) First Class Honours, Glasgo.
3. Shri R.T. Shah	Lecturer in Mechanical Engineering	Leave without pay from 26-11-1957 to 28-9-1959 in accordance with Ordinance 209A	Dr. Ing. First Class, Germany.

Name	Designation	Type of facility	Qualifications or experience acquired
4. Shri B.M. Patel	Lecturer in Mechanical Engineering	Half pay leave on private affairs from 2-9-1958 to 30-12-1958 and leave without pay from 31-12-1958 to 16-10-1959 and ex-gratia grant of Rs. 1,000/-	Acquired training in Mechanical Engineering in West Germany.
5. Shri S. I. Patel	Lecturer in Electrical Engineering	Half pay leave on private affairs from 26-2-1958 to 27-3-1958 and leave without pay from 28-3-1958 to 14-3-1960	Acquired training in Electrical Engineering in West Germany.
6. Shri C.P. Desai	Demonstrator in Electrical Engineering	Leave without pay from 24-2-1958 to 20-3-1960	Acquired training in Electrical Engineering in West Germany.
7. Shri G.G. Dadlani	Lecturer in Social Work	Half pay leave on private affairs from 1-9-1958 to 30-10-1958 and leave without pay from 31-10-1958 to 14-9-1959 and maintenance allowance of Rs. 150/- p. m.	M. Sc. (Soc. Admn.) degree of the Cleveland Research University U. S. A.

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

Name	Designation	Type of facility	Nature of Studies
1. Dr. V.K. Chavda	Lecturer in History	Leave from 23-10-1958 to 22-3-1961 under O. 209A	Ph.D. at the University of Leeds.
2. Shri M.S. Patel	Lecturer in Statistics	Granted leave without pay under O. 209A from 25-1-1958 to 24-1-1961	University of North Carolina for higher studies in Statistics.



Name	Designation	Type of facility	Nature of Studies
3. Shri V.C. Shah	Lecturer in Zoology	Leave under O. 209A leave without pay from 25-8-1958 to 24-8-1962	Ph.D. at the Columbia University U. S. A.
4. Shri N.Y. Hiriyur	Reader in Applied Mechanics	Half pay leave from 14-6-1958 to 12-8-1958 and leave without pay from 13-8-1958 to 13-6-1961	Post-graduate work in East Germany.
5. Shri S.S. Merh	Lecturer in Geology	Study leave under O. 209 from 1-10-1957 to 15-6-1960	Ph.D. in Geology at the Imperial College, London.
6. Shri S.J. Shah	Lecturer in Mechanical Engineering	Study leave upto 31-1-1961. Family allowance @ Rs. 100/- p.m.	Doctorate in Textile Engineering at the Swiss Federal Institute of Technology, Zurich.
7. Shri K.S. Shah	Lecturer in Mechanical Engineering	Leave without pay from 13-6-1956 to 31-12-1960. Stipend @ Rs. 300/- p.m.	Advanced Study and Research in Internal Combustion Engineering for Doctorate Degree in Austria.
8. Shri L.M. Padhya	Sectional Superintendent, Shrimati Hansa Mehta Library	Leave under O. 209A from 2-9-1958 to 31-8-1961. Fellowship of Rs. 250/- p.m.	Higher studies in Library Science and Education, Wisconsin University, U. S. A.

(iii) The following members of the staff were granted facilities during the year for further studies or visits in India or abroad :

Name	Designation	Nature of Studies
1. Professor V. Y. Kantak	Professor English	in To avail of the Fullbright Grant under Professor Exchange Programme to do lecturing and research in American Universities
2. Shri D. D. Mahulkar	Lecturer English	in To avail of the British Council Scholarship for further studies in Applied Linguistics in U. K.

Name	Designation	Nature of Studies
3. Professor C. V. Ramkrishnan	Professor of Bio-chemistry	To avail of the Rockefeller Fellowship for higher studies and research in Waite Agricultural University of Adelaide, Australia.
4. Shri P. R. Batni	Reader in Electrical Engineering	To prosecute his studies for the degree of M. S. in U. S. A.
5. Shri S. D. Desai	Lecturer in Geology	To avail of the award of scholarship for post-graduate course in Geological Engineering leading to the Ph.D. degree in Texas University in U. S. A.
6. Shri S. K. Damle	Lecturer in Applied Mechanics	To avail of the scholarship award of the Ministry of Scientific Research and Cultural Affairs, Government of India under the T. C. M. Programme for the training of teachers in Technical Institutions in U. S. A.
7. Shri R. M. Dave	Lecturer in Civil Engineering	To avail of the scholarship award of the Ministry of Scientific Research and Cultural Affairs, Government of India under the T. C. M. Programme for the training of teachers in Technical Institutions in U. S. A.
8. Shri A. D. Pandya	Lecturer in Mechanical Engineering	For further training in Machine Tool Design in U. S. S. R.
9. Shri K. Surappa	Demonstrator in Civil Engineering	Nominated for the Senior Fellowship in Civil Engineering under the Technical Teachers Training Programme at Roorkee.
10. Dr. C. P. Shukla	University Librarian	For further training in U. S. A. under the India Wheat Loan Educational Exchange Programme
11. Shrimati Amita Verma	Reader in Child Development	For further studies in Education at the Institute of Education, London.
12. Shri H. P. Chokshi	Lecturer in Economics	To avail of the Research Fellowship of the Ford Foundation Unit, at the Bombay University.
13. Shri L. C. Patel	Lecturer in Mechanical Engineering	For studies for the M. T. degree at the Institute of Technology at Kharagpur.



### 6. University Examination Results :

During the period from the 1st July, 1959 to the 31st March, 1960, 10 candidates were declared qualified for the Ph. D. degree—one in each Economics, Sociology, Botany, Zoology and Psychology, two in Sanskrit and three in Bio-Chemistry. The details are as under :

Subject	Title of the Thesis	Name of the candidate
1. Sanskrit	Cultural history from the Matsya-Purana	Shri S. G. Kantawala
2. Sanskrit	Origin and Development of Dattatraya Worship in India	Shri H. S. Joshi
3. Economics	The business Cycle and its Explanation in the contemporary Economic Thought	Shri D. K. Shukla
4. Sociology	The Social Background of the students of the Maharaja Sayajirao University of Baroda	Shri B. V. Shah
5. Zoology	Studies on certain enzymes of the skeletal and cardiac Muscles of Vertebrates with Emphasis on Lipas	Scaria Kuttemperoor
6. Botany	Embryological Studies on the Family Acanthaceae	Kumari K. B. Ambegaonkar
7. Bio-Chemistry	Carbohydrate Metabolism in Citrus fruit tissues with special reference to biosynthesis a Citric Acid	Shri T. N. Sekhara
8. Bio-Chemistry	Studies on Tissue Culture	Shri B. P. Gothoskar
9. Bio-Chemistry	Studies on the Biosynthesis of organic Acids in Garcinia	Shri W. M. Deshpande
10. Psychology	A comparative Analysis of the relationship between acceptance of self and acceptance of others in four Indian College students communities. Hindu, Muslim, Catholic and Zoroastrian	Shri Juachim Fuster

The University has changed its year from July-June to April-March and hence only one statement is given below showing the results of October-December, 1959 Examinations.

### Results of University Examinations of the Second-Half of 1959 ( October-December, 1959 )

S. No.	Examination	No. Registered		No. Absent		No. appeared		Number passed						Grand Total	Percentage of Passes	Remarks	
		1	2	3	4	Men	Women	Total	Men			Women					
									Class I	Class II	Class Pass	Total	Class I	Class II	Class Pass	Total	
1	F. Y. B. A.	68		4	51	13	64	—	—	25	—	—	4	4	29	45.31	
2	S. Y. B. A.	29		1	16	12	28	—	—	11	—	—	10	10	21	75.00	
3	F. Y. B. Sc.	50		3	44	3	47	—	—	35	—	—	3	3	38	80.85	
4	S. Y. B. Sc.	43		1	35	7	42	—	—	23	—	—	5	5	28	66.66	
5	B. Sc. ( Subs. )	4		1	3	—	3	—	—	3	—	—	—	—	3	100.00	
6	F. Y. B. Com.	120		5	115	—	115	—	—	41	—	—	—	—	41	35.65	
7	S. Y. B. Com.	58		2	55	1	56	—	—	32	—	—	1	—	33	58.93	
8	B. Com.	39		1	38	—	38	—	5	24	—	—	—	—	29	76.32	
9	I M.B., B.S.	67		1	58	8	66	—	—	40	—	—	7	7	47	71.21	
10	II M.B., B.S.	49		—	44	5	49	—	—	30	—	—	5	5	35	71.43	
11	III M.B., B.S	64		—	59	5	64	—	—	26	—	—	1	1	27	42.19	
12	M. D.	6		—	6	—	6	—	—	2	—	—	—	—	2	33.33	



## Results of University Examinations of the Second-Half of 1959 ( October-December, 1959 )

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
13	M. S.	4	—	4	—	4	—	—	2	2	—	—	—	—	2	50.00	
14	D. A.	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
15	D. L. and D.	3	—	3	—	3	—	—	2	2	—	—	—	—	2	66.67	
16	D. Ped	1	—	1	—	1	—	—	1	1	—	—	—	—	1	100.00	
17	D. V. and O.	1	—	1	—	1	—	—	—	—	—	—	—	—	0	00.00	
18	F. E. ( CMEtet )—New	101	1	98	2	100	—	—	58	58	—	—	1	1	59	59.00	
19	B. E. ( CMEte )—New	72	1	71	—	71	—	2	40	42	—	—	—	—	42	59.15	
20	S. E. ( CMEte )—Old	79	—	76	—	79	—	—	64	64	—	—	—	—	64	80.10	
21	B. E. ( Civil )	4	—	4	—	4	—	3	1	4	—	—	—	—	4	100.00	
22	B. E. ( Mech. )	4	1	3	—	3	1	1	—	2	—	—	—	—	2	66.67	
23	B. Arch.	2	—	2	—	2	—	1	—	1	—	—	—	—	1	50.00	
24	D. C. E.	4	—	4	—	4	—	3	1	4	—	—	—	—	4	100.00	
25	D. M. E.	4	—	4	—	4	—	2	—	2	—	—	—	—	2	50.00	
26	D. E. E.	5	—	5	—	5	—	1	4	5	—	—	—	—	5	100.00	
27	D. T. C.	2	—	2	—	2	—	2	—	2	—	—	—	—	2	100.00	
28	D. T. T.	2	—	2	—	2	—	1	1	2	—	—	—	—	2	100.00	
29	M. S. W.	4	—	3	1	4	—	—	2	2	—	—	1	1	3	75.00	

## 7. Finance of the University :

(1) Endowments received during the year :

The Syndicate accepted the following new endowments :

## (a) M. C. Ghia Charitable Trust Scholarships :

The University received a sum of Rs. 5,760=00 from M. C. Ghia Charitable Trust, Bombay for awarding 6 scholarships of Rs. 480=00 each per annum to deserving students studying in degree courses of the Faculty of Technology and Engineering and 8 scholarships of Rs. 360=00 each per annum to deserving students studying in diploma courses in Engineering in the Polytechnic.

## (b) Alembic Glass Industries Ltd., Baroda Scholarships :

The University received a sum of Rs. 1,000=00 from Alembic Glass Industries Ltd., Baroda for awarding scholarships to poor students studying in diploma, degree or post-graduate courses in the department of Dramatics in the College of Indian Music, Dance and Dramatics, with an assurance that a similar amount will be paid yearly during the subsequent four years.

## (2) Capital Accounts :

Receipts and Payments for the period of 9 months

(i. e. from the 1st July, 1959 to the 31st March, 1960)

## 1 University General Fund

Receipts	Rs.	Payments	Rs.
Interest	33,228=87	Building Works Water Supply Scheme in the University Campus	931=32
Grant from the University Grants Commission towards the construction of the Second-Hall of Residence for women students	1,50,000=00	Hall of Residence for students (No. III)	1,290=35
Sale proceeds, etc. of the land	1,19,810=00	Hall of Residence for students (No. IV)	12,083=37
Transfer of surplus of the Revenue Amount As per last Account 84,545=89		Buildings at Social Educational Organisers' Training Centre, Sami-ala	383=25
Add Excess of receipts over expenditure during the year 8,33,812=54	9,18,358=43	* Construction of a building for the 18th Bombay Engineering Platoon	69,524=92
Total :	12,21,397=60	* Construction of a building for the 5th Bombay Girls' Troop	34,799=30

\* 50% grant is yet to be received from the State Government.



Receipts	Rs.	Payments	Rs.
Less adjustments : State Government to be credited towards the construction of the Third Hall of Residence for women students instead of the Second Hall of Residence for women students 1,43,750=00 Deficit as per last Account written off 9,349=12		Home Management House No. II Excess expenditure over grants borne by the University Hobby Workshop Extension of the building of the Department of Psychology Vivarium for Zoology Department Special Heavy Repairs	17,173=15 1,513=03 2,246=12 107=83 16,251=68
	1,53,144=12	Total :	1,56,304=32
		Less adjustment during the year : Hall of Residence for students (No. V) 59=60 Hall of Residence for women students (No. I) 118=77 University Library 2,436=65	
		Closing balance as of the 31st March, 1960	1,53,689=40 9,14,564=08
Total :	10,68,253=48		10,68,253=48

## II TECHNOLOGY AND ENGINEERING FACULTY FUND

Receipts	Rs.	Payments	Rs.
Opening balance as of the 1st July 1959		Building for the Technology Section	20,359=02
Interest	40,054=82	Equipment for the Engineering Section	3,782=01
Adjustment of expenditure on Cold Room for Bio-Chemistry Department	1,110=54	Equipment for the Technology Section	21,113=11
		Advance to M. S. University Press (Sadhana Press)	
		For Machinery	9,230=61
		For Types and Metal	9,351=82
		For Furniture	4,224=25
		For Building	24,303=76

Receipts	Rs.	Payments	Rs.
		Loss on sale of securities	50,129=80
		Transfer to Revenue Accounts towards the maintainance of the Faculty of Technology and Engineering	10,000=00
		Total :	1,52,494=38
		Closing balance as of the 31st March, 1960	3,37,070=57
	4,89,564=95	Total :	4,89,564=95

## III AYURVEDIC RESEARCH FUND ( SHETH U. P. AYURVEDIC RESEARCH FUND )

Receipts	Rs.	Payments	Rs.
Opening balance as of the 1st July, 1959	10,78,085=00	Purchase of Equipment	7,489=06
Interest	31,847=80	Amount transferred to meet the excess recurring expenditure over and above the State Government grant	4,341=78
		Closing balance as of the 31st March, 1960	10,98,101=96
Total :	11,09,932=80	Total :	11,09,932=80

## IV POST-GRADUATE INSTRUCTION AND RESEARCH FUND

Receipts	Rs.	Payments	Rs.
Opening balancing as of the 1st July, 1959	40,68,216=47	Transfer to Revenue Account towards the expenditure on Research Staff, Contingencies, Equipment etc.	10,000=00
Interest	1,28,026=50	Closing balance as of the 31st March, 1960	41,86,242=97
Total :	41,96,242=97		41,96,242=97



## V WOMEN'S EDUCATIONAL TRUST FUND

Receipts	Rs.	Payments	Rs.
Opening balance as of the 1st July, 1959	63,459=87	Transfer to Revenue Account towards the expenditure of the Faculty of Home Science	2,300=00
Interest	2,410=00	Closing balance as the 31st March, 1960	63,569=87
Total :	<u>65,869=87</u>	Total :	<u>65,869=87</u>

## (3) Revenue Funds :

Receipts and Expenditure for the year 1959-60 i. e. from the 1st July, 1959 to the 31st March, 1960  
( 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	13,15,826=79	I	University General Administration	1,87,494=05
(A)	Faculties		II	Examination Charges	90,625=08
(a)	Faculty of Arts	2,54,151=40	III	Deadstock and Repairs	23,719=01
(b)	Faculty of Science	2,55,154=97	IV	Publications	7,312=90
(c)	Faculty of Education and Psychology	97,228=88	V	Information and Publicity	7,953=74
(d)	Faculty of Commerce	2,24,172=51	VI	Remuneration to Lecturers	3,122=10
(e)	Faculty of Technology and Engineering	3,28,646=41	VII	Travelling Allowance	33,762=34
(f)	Faculty of Fine Arts	31,632=60	VIII	Printing and Stationery	43,600=70
(g)	Faculty of Home Science	65,334=32	IX	Maintenance of Buildings and Roads	87,387=36
(h)	Faculty of Social Work	30,147=10	X	Maintenance of Gardens	15,463=54
(B)	Institutions		XI	Municipal Taxes and Charges	625=00
(a)	College of Indian Music, Dance and Dramatics	29,014=59	XII	University Contribution to Provident Fund	7,876=37
(b)	Preparatory Unit	338=90	XIII	Study Leave	7,137=31
(c)	Sanskrit Mahavidyalaya	5=11	XIV	Miscellaneous	1,02,103=11
II	Examination Fees	3,49,457=78	XV	Research Staff, Contingencies, Equipment, etc.	52,393=05
III	Other Fees	94,447=50	XVI	Scheme of Teaching Hindi to University Employees	543=51
IV	Income from Publications	23,036=14	XVII	Health Centre	—
V-A	Grant from the State Government	22,02,142=50	XVIII	University Guest House	7,727=89
V-B	Grant from the University Grants Commission and the State Government		XIX	50% Expenditure of the University Grants Commission Unit	2,745=11
			XX	University Library	1,41,078=56
			XXI	Physical Education Department	66,239=41
			XXII	Department of General Education	13,609=39
			XXIII	Faculties and Institutions	26,14,320=92



S. No.	Particulars	Receipts in Rs.	S. No.	Particulars	Expenditure in Rs.
	ment towards the increase in Salaries of the present teaching staff due to the grade revision	60,312=60	(A) Faculties		
V-C	Grant for the Three Year Degree Courses in Arts, Science and Commerce	45,100=00	(a) Faculty of Arts		3,33,502=78
VI	Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	1,51,000=00	(b) Faculty of Science		5,39,521=50
VII	Interest on Cash Balances	41,080=84	(c) Faculty of Education and Psychology		2,26,308=86
VIII	Income from Endowments	23,048=87	(d) Faculty of Commerce		1,05,781=41
IX-A	Income from Halls of Residence for students	1,87,317=50	(e) Faculty of Technology and Engineering		6,75,573=48
IX-B	Sale of admission forms for Halls of Residence	2,760=00	(f) Faculty of Fine Arts		1,53,073=28
X	Income from use and occupation of University quarters and bungalows including furniture rent	37,059=67	(g) Faculty of Home Science		1,76,153=19
XI	Income from lease of land	375=00	(h) Faculty of Social Work		1,29,202=95
XII	Miscellaneous Income	57,158=09	(B) Institutions		
XIII	Income from the M. S. University of Baroda Press	1,46,414=69	(a) Oriental Institute		67,732=37
XIV	Income from the M. S. University Stationery Unit	75,922=25	(b) College of Indian Music, Dance and Dramatics		1,36,192=61
	Total Receipts	48,11,460=22	(c) Preparatory Unit		33,420=34
			(d) Sanskrit Mahavidyalaya		37,796=22
			XXIV Halls of Residence for students		2,02,678=68
			XXV M. S. University of Baroda Press		1,77,402=47
			XXVI M. S. University Stationery Unit		78,452=22
			XXVII M. S. University Publications Sales Unit		2,043=86
			Total Expenditure		39,77,647=68
			Excess of Receipts over expenditure transferred to the General Fund		8,33,812=54
			Grand Total		48,11,460=22

## (4) Grants

The following grants were received from the University Grants Commission, the Government of India, the Planning Commission, the Government of Bombay during the period from the 1st July, 1959 to the 31st March, 1960.

## A. Grants from the University Grants Commission :

Humanities	Rs.
1 Development of the Department of Archaeology and Ancient History	2,17,000
(i) Building	1,60,000
(ii) Staff and maintenance	57,000
2 Development of the Departments of English, Hindi and Sociology	20,000
(i) Books for Hindi Department	5,000
(ii) Staff and maintenance	15,000
3 Development of the Departments of Economics and Politics and the Faculty of Commerce	50,000
(i) Building	25,000
(ii) Furniture	25,000
4 Project for a Socio-Historical Survey of the Muslim Population of Gujarat	5,000
(i) Books and Equipment	5,000
5 Pilot Project of Psychological Counselling for University students	7,000
(i) Equipment and furniture	2,000
(ii) Staff and maintenance	5,000
6 Development of the Department of Psychology	5,000
(i) Furniture	5,000
7 Development of the Department of Museology	40,000
(i) Books and Equipment	30,000
(ii) Staff and maintenance	10,000
8 New building for the Faculty of Social Work	80,000
9 Extension to the building of the College of Indian Music, Dance and Dramatics	40,000
10 New building for Hobby Workshop	8,000



## Humanities

		Rs.
11	Three Year Degree Course in the Faculties of Arts ( including Psychology ), Science and Commerce	1,01,350
	( i ) Building, books, equipment, furniture	56,250
	( ii ) Staff	
12	Publication of a critical edition of Valmiki Ramayana	45,100
13	Publication of approved research work or doctorate thesis	3,900
	( i ) Pt. K. C. Shukla's research work	1,500
	( ii ) Dr. Y. V. S. Nath's thesis	2,400
14	Research Scheme ' Problems of Working Mothers in Baroda city '	3,000
15	Revision of Salary Scales of University teachers	50,000
16	Corporate Membership Fee of the Indian International Centre	2,0000
17	Post-graduate and research scholarships in Humanities	13,366=99
18	Establishment of Students' Aid Fund in the University	7,903=22
19	Additional Staff of the University Grants Commission Unit in the University Office	3,500=00
<b>Science</b>		
1	Extension to the building of the Faculty of Science	1,00,000
2	Vivarium for Zoology	8,234
3	Equipment for the Departments of Botany, Chemistry, Mathematics, Physics, Statistics and Zoology	1,36,667
4	Equipment for the Science Central Workshop	24,000
5	Development of the Department of Bio-chemistry	30,000
	( i ) Equipment	20,000
	( ii ) Books and journals	10,000
6	Books and Journals on Scientific and technical subjects	40,000

## Humanities

		Rs.
7	Air Conditioning the Botanical and Zoological Laboratories	14,666
8	Travel grants to Science personnel, Dr. C. H. Pathak and Dr. V. V. Modi	475
9	Additional Staff in the Faculty of Science	25,652
	( i ) Three Professors	21,707
	( Botany, Mathematics and Zoology ) and one Reader ( Geography )	
	( ii ) Reader in Physical Chemistry	842
	( iii ) Professor of Biochemistry	3,103
10	Research Scholarship in Science Technology and Engineering	2,400
1	Improvement of library facilities in the Faculty of Technology and Engineering	75,000=00
	( i ) Books	41,000
	( ii ) Renovation, furniture, etc.	34,000
2	Development Scheme of the Faculty of Technology and Engineering Staff	13,426
3	Expansion Scheme of the degree courses in Engineering in the Faculty of Technology and Engineering	15,901=00
	( i ) Building	3,182
	( ii ) Staff and maintenance	12,719
4	Expansion Scheme of the Diploma Courses in Engineering in the Polytechnic	7,49,539=50
	( i ) Building	3,37,000
	( ii ) Equipment, furniture and books	2,75,000
	( iii ) Staff and maintenance	1,37,539=50

## B. Grant from the Ministry of Education, Government of India :

1	Research in Educational and Vocational Guidance	3,279=00
2	Construction and Standardisation of sets of achievement tests in secondary schools	14,074=00



## Humanities

	Rs.
3 Department of Extension Services	23,080=47
4 National Cadet Corps	94=00
5 National Plan Day	125=00
<b>C. Grant from the Ministry of Scientific Research and Cultural Affairs, Government of India :</b>	
1 Teaching Hindi to foreign students	400=00
<b>D. Grant from the Ministry of Community Development and Co-operation, Government of India :</b>	
1 Training Centre for Specialised Training of Social Education Organizers	29,800=00
<b>E. Grant from the Ministry of Information and Broadcasting, Government of India :</b>	
1 Information Centre for Plan Publicity	675=00
<b>F. Grants from the Planning Commission :</b>	
1 Small Scale and Cottage Industries in Baroda District	1,792=93
2 Socio Economic Survey of the city of Baroda	1,429=75
<b>G. Grant from the Council of Scientific and Industrial Research :</b>	
1 Studies of C <sub>4</sub> Metabolism in a Niger	5,745=02
2 Award of Fellowships	4,900=00
<b>H. Grant from the Department of Education, Government of Bombay :</b>	
1 Building for the Faculty of Commerce and the Departments of Economics and Politics	20,000=00
2 Furniture for the new building of the Faculty of Social Work	5,000=00
3 Third Hall of Residence for Women Students	1,43,750=00
4 Pilot Project of Psychological Counselling for University Students	6,167=00
( i ) Equipment, Furniture	1,167
( ii ) Staff and maintenance	5,000
5 Revision of the Salary Scales of University Teachers	10,312=60
6 Scheme of Survey of Sarasavani Village by the Department of Economics	2,000=00
7 All India English Teachers' Conference	1,000=00
8 Vivarium for Zoology	817=00

## Humanities

	Rs.
9 Equipment for the Department of Biochemistry	10,000=00
10 Air Conditioning the Zoological and Botanical Laboratories	7,334=00
11 Additional Staff in the Faculty of Science	22,793=57
12 Reader in Physical Chemistry	841=30
13 Staff of the Department of Biochemistry	3,102=43
14 Improvement of library facilities in the Faculty of Technology and Engineering	16,000=00
15 Staff and maintenance of the Expansion Scheme of the Diploma Courses in Engineering in the Polytechnic	72,000=00
<b>I. Grant from the Department of Agriculture and Forests, Government of Bombay :</b>	
1 Home Science Wing	28,945=77
( i ) Furniture and equipment	2,821=25
( ii ) Demonstration and teaching aids	4,777=63
( iii ) Freight charges, etc.	684=69
( iv ) Staff and maintenance	20,662=20
<b>J. Grant from the Department of Local Self-Government and Public Health, Government of Bombay :</b>	
1 Mental Hygiene and Psychiatric Clinic in the Faculty of Social Work	11,807=00
<b>8. Construction Division</b>	
( 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, one Part-time Electrical Supervisor, 48 Class III and 38 Class IV servants.

One temporary post of a Deputy Engineer and one post of Architectural Assistant were also sanctioned and filled up. The post of a Mechanical Overseer on a full time basis was held in abeyance and instead a new temporary post of a part-time Mechanical Overseer was sanctioned. Three posts of watchmen were transferred from the Construction Division ; two of them were charged to the Department of Physical Education and the third to the University Office. The supervision and control and arrangements in the University Guest House is transferred to the University Office with effect from the 1st February, 1960.



## (2) Original Works Completed

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

Description of work	Expenditure on the building or work during the year	Total Expenditure on the building/works upto the 31st March, 1960
	Rs. nP.	Rs. nP.
I Faculty of Technology and Engineering :		
( i ) Constructing Exhibition Hall between Weaving and Spinning Sections of the Faculty of Technology and Engineering	1,022=00	8,88,023=25
( ii ) Asphaltting the road in the Workshop of the Faculty of Technology and Engineering	1,387=60	
( iii ) Extension of the Heat Engines Laboratory in the Faculty of Technology and Engineering	9,659=58	
( iv ) Extension of the Boiler Shed in the Faculty of Technology and Engineering	5,840=43	
Press Account :		
( i ) New Building of the Press	21,203=76	3,40,414=58
II University General Fund :		
( i ) Third Hall of Residence for Men students	1,290=35	5,87,959=03
( ii ) University Library Building	2,436=65	12,39,920=31
( iii ) Additional ( Different ) works at Samiala	335=63	
( iv ) Home Management House	17,173=15	24,934=61
III Special Heavy Repairs in the Buildings :		
Converting the Gymnasium Hall into living rooms on the First floor of Shrimati Sarojinidevi Hall	15,248=41	15,248=41
IV Depreciation Fund :		
Construction of R.C.C. tank in place of W.I. tank in Adhyapak Kutirs	2,420=40	2,420=40
V Works of Grants :		
Constructing a building for Hobby Workshop	26,492=03	26,513=03
VI Deposit Work— Faculty Funds :		
Constructing a Summer House in the Faculty of Education and Psychology	4,488=51	4,488=51

## 3 Works in Progress

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

Description of the work	Expenditure on the building or work during the year	Total Expenditure on the building/works upto the 31st March, 1960
	Rs. nP.	Rs. nP.
I Faculty of Technology and Engineering :		
Acquiring land on the Piramitar Road for Extension of the Textile Chemistry Department of the Faculty of Technology and Engineering	36=26	52=66
II University General Fund :		
( i ) Water supply scheme for University campus	908=42	1,34,669=94
( ii ) Constructing a building for the 18th Bombay Engineering Platoon	69,524=92	1,03,865=20
( iii ) Constructing a building for the 5th Bombay Girls' Troop	34,799=70	86,729=54
III Special Heavy Repairs :		
Realignment of approach road to Nizampura village near Polytechnic	956=14	956=14
IV Works of Grants :		
( i ) Polytechnic	3,47,959=86	10,57,922=69
( ii ) Constructing three Hostels with Wardens' Quarters for Polytechnic	2,88,451=00	2,88,737=21
( iii ) Building for the Faculty of Social Work	1,31,307=07	3,24,036=52
( iv ) Constructing a building for the Faculty of Commerce	14,477=22	2,89,642=89
( v ) New Building for the Department of Archæology and Ancient History	1,39,452=96	1,55,841=50
( vi ) Extension of the building of the College of Indian Music, Dance and Dramatics	64,770=10	1,31,249=54
( vii ) Extension of the building of the Faculty of Science	1,46,605=68	2,78,595=31
( viii ) Constructing a building of Students' Health Centre	30=00	68=79
( ix ) Constructing Additional Wing to Social Sciences Block	30=00	73=50
( x ) Additions and alterations in the Library of the Faculty of Technology and Engineering	1,696=07	1,696=07



Description of the work	Expenditure on the building or work during the year	Total Expendi- ture on the build- ing/works upto the 31st March, 1960
	Rs. nP.	Rs. nP.
( xi ) Constructing First floor over Workshop in the Faculty of Education and Psychology	45=00	45=00
( xii ) Constructing First floor over Seminar Building	45=00	45=00
( xiii ) Constructing a building for General Education Centre ( Grant from Ford Foundation )	2,40,774=69	4,40,067=08

( 4 ) *Adjustments:*

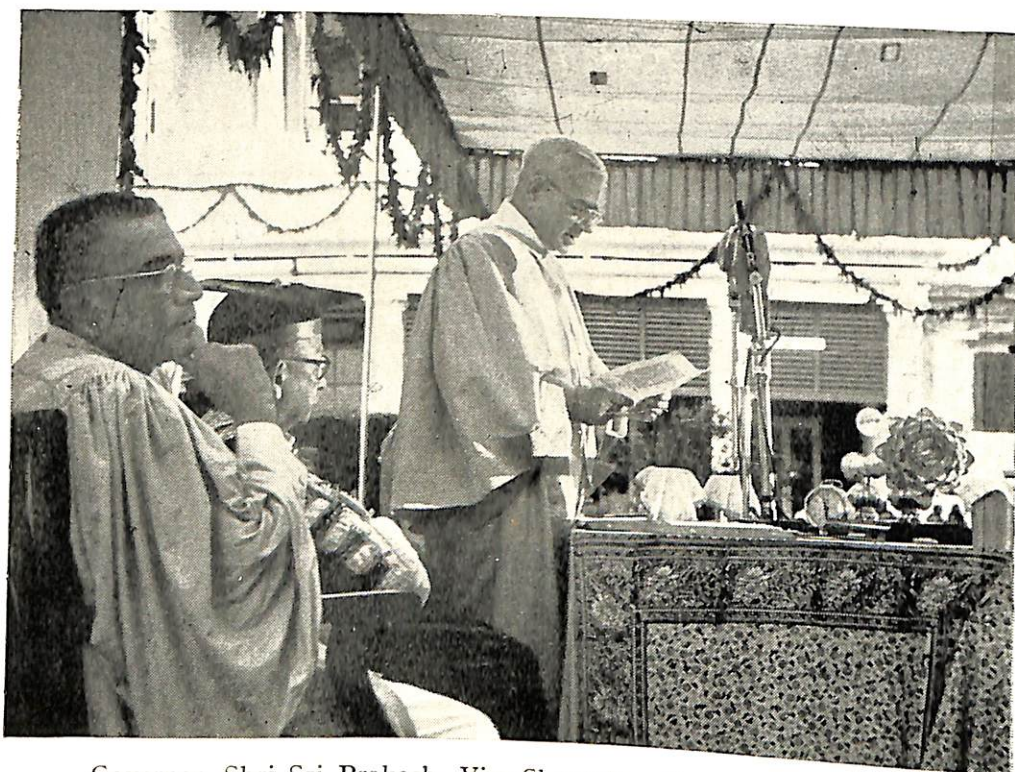
In the following completed works, adjustments were required to be carried out as under :

I Faculty of Technology and Engineering:		
( i ) Cold Storage room for Bio-Chemistry Department	1,115=17	36,531=17
( ii ) Electrical Installation in Civil Engineering Department	55=18	8,587=14
II University General Fund:		
( i ) Second Hall of Residence for Women Students ( Shrimati Hansa Mehta Hall )	118=77	5,76,990=72
( ii ) Fifth Hall of Residence for Men Students ( Shri K. M. Munshi Hall )	59=50	5,84,491=71
III Depreciation Fund:		
Renewing the delapidated wooden verandah in Dhanvantary and Chamelibag bungalows	37=44	8,99=33
IV Works of Grants:		
Additional buildings in the Faculty of Technology and Engineering under Ghosh Chandrakant Scheme	46=72	1,83,306=08

( 5 ) *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 Botanical gardens were looked after and maintained by the Construction Division.





Governor Shri Sri Prakash, Vice-Chancellor Dr. J. M. Mehta and Pro-Vice-Chancellor Dr. C. S. Patel during the Annual Convocation

## CHAPTER II—OFFICERS AND AUTHORITIES OF THE UNIVERSITY

### 1. Officers

#### (1) *The Chancellor*

His Highness Maharaja Fatehsinhrao 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 various meetings in India, gave talks, delivered lectures and also presided over many social functions, some of which are mentioned below:

- (a) Inaugurated the United States Information Service Exhibition 'America Today' at Nyaya Mandir, Baroda on the 10th September, 1959;
- (b) Attended the meetings of the Board of Visitors of Sardar Vallabhbhai Vidyapeeth at Vallabh Vidyanagar on the 4th December, 1959 and the 18th January, 1960;
- (c) Attended the meeting of the Inter University Board in Baroda on the 18th, 19th and the 20th December, 1959;
- (d) Attended the meetings of the World Brotherhood All India Committee at Bombay on the 31st January and the 1st February, 1960
- (e) Attended the meeting of the Joint Board of Vice-Chancellors of the universities of the Bombay State in Baroda on the 8th February, 1960
- (f) Attended the meeting of the Indian Council of Cultural Relations in Bombay on the 11th February, 1960 and the Annual meeting of the General Assembly of the Council at New Delhi on the 21st February, 1960

#### (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 attended the following meetings :

- (a) The Bombay State Industrial Research Committee at Bombay on the 16th July, 1959;



(b) 47th Session of the Indian Science Congress at Bombay from the 3rd to the 6th January, 1960.

(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. ( Bom. ), ( upto 7-9-1959 ) Professor C. M. Shukla, M. A. ( Bom. ), B. A. ( Hons. ) ( London ) ( from 8-9-1959 )
Science	Professor N. M. Bhatt, M. Sc. LL. B. ( Bom. ) Ph. D. ( Edin. ) F. S. S.
Education and Psychology	Professor T. K. N. Menon, B. A. ( Madras ), Dip. in Edu. ( Leeds & Berlin ), M. A. Edu. ( Leeds )
Commerce	Professor B. G. Shah, M. Com. ( Bom. )
Medicine	Dr. J. D. Pathak, B. Sc., M. D., F. C. P. S. ( Bom. )
Technology and Engineering	Professor D. Subba Rao, B. E. ( Civil ) ( Mysore ) A. M. I. E. ( India ) ( upto 24-9-1959 ) Professor P. J. Madan, B. Sc. ( Eng. ) ( Edin. ), M. Sc. ( Eng. ), D. I. C., M. Inst. H. E. ( London ), A. M. I. E. ( India ) ( from 25-9-1959 )
Fine Arts	Professor Markand Bhatt, G. D. ( Art. ) ( Bom. ), M. A. ( Barnes Foundation ) ( upto 14-8-1959 ) Professor N. S. Bendre, B. A. ( Agra ), G. D. ( Art ) ( Bom. ), ( from 15-8-1959 )
Home Science	Professor ( Kumari ) Justina A. Singh, M.Sc. ( Oregon & Kansas )
Social Work	Professor ( Shrimati ) Indra S. Tayal, B.S., M.S. ( Oklahoma ), M.S.W. ( Michigan )

(5) *The Registrar*

Shri B. K. Zutshi, M.A., LL.B., continued to work as the Registrar during 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, Baroda Sanskrit Mahavidyalaya
( iv ) Professor C. M. Shukla, M.A. ( Bom. ), B.A. ( Hons. ) ( London ) ( upto 7-9-1959 ) Shri K. S. Yajnik, M.A. B.T. ( from 8-9-1959 )	Head Preparatory 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.

( i ) Shri M.A. Rao, Principal, Railway Staff College became a member of the Senate from the 6th August, 1959 vice Shri Albert Vivian D'Costa, transferred.

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

( iii ) Dr. V.R. Khanolkar, Vice-Chancellor, Bombay University became an ex-officio members of the Senate vice Shri T.M. Advani from the 1st March, 1960.

( iv ) Shri S.H. Mehta, Superintending Engineer, Gujarat Irrigation Circle, became an ex-officio member of the Senate from the 21st September, 1959 vice Shri V.B. Manerikar transferred.



(2) *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) Director of Education, Bombay state
- (d) Dr. (Shrimati) Hansa Mehta
- (e) Dr. Jivraj N. Mehta
- (f) Dr. B.B. Yodh
- (g) Shri B.B. Joshi
- (h) Shri D.M. Parikh
- (i) Shrimati Ansuya I. Amin
- (j) Professor T.K.N. Menon
- (k) Professor V.Y. Kantak (upto 7-9-1959)
- (l) Professor N.M. Bhatt
- (m) Professor D. Subba Rao (upto 24-9-1959)
- (n) Dr. T.V. Patel

The vacancies of Professor V. Y. Kantak and the Late Professor D. Subba Rao remained vacant during the rest of the year.

## CHAPTER III—THE SENATE

1. **Number of meetings**

The Senate met twice during the year on the 18th October 1957 and the 27th March, 1960.

2. **Attendance**

50 members attended the meeting held on the 18th October, 1959 and 55 members attended the meeting on the 27th March, 1960.

3. **First meeting**

At the meeting of the Senate held on the 18th October, 1959 a condolence resolution mourning the sad demise of Professor D. Subbarao, Dean, Faculty of Technology and Engineering was passed. The following business was transacted :—

(1) Dr. M.A. Patel was elected to the Council of Post-graduate Studies and Research for a period upto the 22nd June, 1960.

(2) Shri R.P. Desai was elected to the Board of Visitors for the Faculty of Technology and Engineering for a period of three years from the 1st December, 1959.

(3) Shri P.V. Shah was elected to the Board of Visitors for the Polytechnic for a period of three years from the 1st December, 1959.

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

S. N.	Name	Faculty/Faculties
1.	Professor D.G. Karve	Arts and Commerce
2.	Professor B.G. Shah	Arts and Commerce
3.	Dr. J.D. Pathak	Science and Medicine
4.	Dr. A.G. Pawar	Arts
5.	Shri M.A. Rao	Technology and Engineering

(5) Renewal of lapsed grants amounting to Rs. 2,70,072.00 in the revenue budget and Rs. 22,049.00 in the capital budget and supplementary grants amounting to Rs. 1,09,613.00 in the revenue budget and Rs. 30,000.00 in capital budget were sanctioned.



(6) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 8 of Handbook Part II, 1956 were considered and passed.

(7) Statutes 108 and 109 (B) regarding the change of financial year from July-June to April-March were passed.

(8) Statute 193A regarding the change in the age of super-annuation of University employees was passed.

(9) Amendment to Statute 199 in the matter of addition for the degrees of 'Master of Arts Criticism' and 'Master of Art Education' was passed.

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

#### Faculty of Arts

1. Lecturer in Economics

#### Faculty of Science

1. Professor in Bio-chemistry
2. Lecturer in Bio-chemistry
3. Lecturer in Bio-chemistry

#### 4. Second meeting :

At the second meeting of the Senate (Annual meeting) held on the 27th March, 1960 the following business was transacted.

(1) Professor B.J. Sandesara, Dr. M.S. Patel, Professor S.M. Sethna, Dr. M.A. Patel, and Professor S.M. Sen, were elected to the Council of Post-graduate Studies and Research for a period of three years from the 1st July, 1960.

(2) Shri H.R. Desai, Shri S.A. Sabnis and Shri C.J. Sutaria were elected to the Board of Accounts for a period upto the 31st March, 1962.

(3) Shri H.S. Mehta was assigned to the Faculty of Technology and Engineering.

(4) The Annual Financial Statement comprising the revised estimates for the year 1950-60 and the estimates for the year 1960-61 were considered and passed.

(5) An amendment to Statute 91 creating three separate Boards of Studies viz. (a) Banking and Business Finance, (b) Accounts and

(c) Commerce including Business Administration instead of one Board of Studies viz. Commerce including Business Organisation, Accountancy and Audit, Banking, Transport, Cotton Industries etc. was passed.

(6) An amendment to Statute 134 regarding the age of superannuation and the probationary period of the Registrar was passed.

(7) An amendment to Statute 138 regarding the delegation of powers to Heads of Institutions was passed.

(8) Amendments to and additions of Ordinances and Rules mentioned in pamphlet No. 9 of the Handbook Part II, 1956 were passed.

(9) The Tenth Annual report and the Tenth Annual Accounts of the University for the year 1958-59 were passed. The excess expenditure over the revised estimates for the year 1958-59 was also passed.

(10) The report of the Board of Accounts for the year 1958-59 was approved.

(11) A proposal to institute the following posts was passed :—

#### Faculty of Arts

1. Professor of Linguistics
2. Professor of Political Science
3. Reader in Econometrics
4. Lecturer in Linguistics
5. Lecturer in Archaeological Chemistry
6. Lecturer in Law (temporary for one year)
7. Professor of Agricultural Economics.

#### Faculty of Science

1. Lecturer in Botany
2. Lecturer in Mathematics

#### Faculty of Education and Psychology

1. Professor of Psychology
2. Lecturer in Education

#### (General Education Department)

1. Reader in Philosophy or History
2. Lecturer in Biological Sciences
3. Lecturer in Art Appreciation
4. Lecturer in Physical Sciences



**Faculty of Commerce**

1. Professor of Agricultural Economics
2. Lecturer in Accounts
3. Lecturer in Economics

**Faculty of Technology and Engineering**

1. Reader in Engineering Geology
2. Lecturer in Architecture
3. Lecturer in Architecture

**Faculty of Fine Arts**

1. Reader in Graphic Arts
2. Lecturer in Art History
3. Lecturer in Museology (with retrospective effect from 16-1-60)

**Faculty of Home Science**

1. Lecturer in Arts and Crafts
2. Lecturer in Home Science

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

1. Lecturer in Dance

(12) The motion regarding conferring the Honorary degree of Doctor of Science on Dr. Jivraj N. Mehta, Chief Minister, Gujarat State was passed unanimously.

**CHAPTER IV—THE SYNDICATE****1. Number of Meetings**

During the year the Syndicate held seven meetings at which they considered and passed resolutions on 754 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
		O.	S.			
1 Dr. Jyotindra M. Mehta, Vice-Chancellor	7	O. 5	S. 2	O. 5	—	
2 Dr. C. S. Patel, Pro-Vice-Chancellor	7	O. 5	S. 2	O. 5	—	
3 Director of Education or his nominee	7	O. 5	S. 2	O. 2	O. 3	
4 Dr. (Shrimati) Hansa Mehta	7	O. 5	S. 2	O. 2	O. 3	
5 Dr. Jivraj N. Mehta	7	O. 5	S. 2	O. 2	O. 3	
6 Dr. B. B. Yodh	7	O. 5	S. 2	O. 4	O. 1	
7 Shri B. B. Joshi	7	O. 5	S. 2	O. 4	O. 1	
8 Shri J. S. Parikh	7	O. 5	S. 2	O. 5	—	
9 Shri D. M. Parikh	7	O. 5	S. 2	O. 3	O. 2	
10 Shrimati Ansuya I. Amin	7	O. 5	S. 2	O. 1	O. 4	
11 Professor T.K.N. Menon	7	O. 5	S. 2	O. 5	—	



Name	Number of meetings held	Class of meetings	Present	Absent	Remarks
12 Professor V. Y. Kantak	2	O. 1 S. 1	O. 1 S. 1	—	Left for U.S.A. on 7-9-1959
13 Professor N. M. Bhatt	7	O. 5 S. 2	O. 5 S. 2	—	
14 Professor D. Subba Rao	3	O. 2 S. 1	O. 2 S. 1	—	Went on sick leave from 25-9-1959 and then expired.
15 Dr. T. V. Patel	7	O. 5 S. 2	O. 5 S. 1	— S. 1	

### 3. New developments and improvements in the existing departments

With the overall progress of the University it was necessary to increase the strength of the University Administration. The grades of the Officers of the University Office *viz.* Registrar, Deputy Registrar, Assistant Registrar and Accountant were revised and some new posts of clerks and senior clerks were created in the University Office.

A scheme of teaching Hindi to the University teachers was approved and an amount of Rs. 8,000 was sanctioned for the same. The University Guest House was reorganised and an accommodation for 10 Guests was provided.

In the Faculty of Arts two posts of Professors of English and the Professor of Economics were filled up. The development of the Department of Archaeology as approved by the University Grants Commission was given effect to and the department was re-named as Department of Archaeology and Ancient History. A temporary post of Lecturer in Law was also created in the Faculty.

In the Faculty of Science the post of Professor of Bio-chemistry was filled up from January, 1959.

In the Faculty of Education and Psychology a new post of Reader in Educational Administration was created.

In the Faculty of Fine Arts two posts of Lecturers in Applied Arts and Sculpture were created to cope up with the increased work. The Univer-

sity Grants Commission have approved a non-recurring grant of Rs. 46,000/- for purchase of equipments and books and a recurring grant of Rs. 21,000/- for the development of the Museology Department.

In the Faculty of Home Science one post of Lecturer, one post of Tutor and one post of Demonstrator were created.

In the Faculty of Social Work a new post of Lecturer (Social Worker) in the Mental Hygiene and Psychiatric Clinic was created.

### 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. Under the scheme the following were continued or invited to work as Honorary Professors or Lecturers during the year :

Name	Subject	Faculty/Institution
<b>(a) Honorary Professors :</b>		
( i ) Professor C. C. Mehta	Dramatics	College of Indian Music, Dance and Dramatics
( ii ) Professor H. K. Doring	Modelling and Display Techniques	Museology Department, Faculty of Fine Arts
( iii ) Professor L. B. Shastri	Aesthetics	Faculty of Fine Arts
<b>(b) Honorary Lecturers :</b>		
( i ) Shrimati Mirabai Badkar	Music	College of Indian Music, Dance and Dramatics
( ii ) Shri Gulam Rasulkhan	Music	College of Indian Music, Dance and Dramatics

In addition to the above some other eminent persons were 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 15 Research Assistants and 1 Research Student working under the 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 amounting to Rs. 1,13,347 were sanctioned during the year as under :

<i>Department/Faculty</i>	<i>Particulars</i>	<i>Amount sanctioned</i> Rs.
Economics	(i) Survey of Consumers Finance in Baroda	11,120
	(ii) Village Survey	5,800
Gujarati	Scheme of publication of critical editions of old Gujarati Texts	6,350
	Publications of the late Professor B.K. Thakore	2,135
History	Research in Muslim History of Gujarat	3,500
	Research in Modern Indian History	3,600
Sanskrit	Publication of Translation of 9th Mandal of Rgved	2,200
Sociology	Contingencies	600
Politics	(i) Scheme of Exploratory Project on Political Analysis	800
	(ii) Survey of Rural Local Government in Baroda Taluka	3,600
Hindi	Contingencies and T. A.	600
Science	Purchase of equipments, fine chemicals, contingencies, etc. for various research schemes	11,650
Education and Psychology	Apparatus, equipment, printing stationery, etc.	3,500
College of Indian Music, Dance and Dramatics	Scheme of Bibliography of Gujarati Plays by Professor C. C. Mehta	900

<i>Department/Faculty</i>	<i>Particulars</i>	<i>Amount sanctioned</i> Rs.
General	(i) Scheme of Compilation of Chronology of Gujarat	6,200
	(ii) Publication of research papers, etc.	2,058
Banking	Staff, books, equipment, etc.	20,230
Archaeology & Ancient History	Excess amount to be borne by the University over the recurring grant of Rs. 75,000 by the University Grants Commission	9,650
Museology	Excess amount to be borne by the University Grants Commission	18,845
		<u>1,13,347</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 two meetings during the year, on the 14th October, 1959 and 11th March, 1960 and considered in all 50 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>Title of the Scheme</i>	<i>Conducted by</i>
( i ) Urinary excretion of Sulphur Skin Temperatures	Dr. J. D. Pathak, Dean, Faculty of Medicine
( ii ) Leadership in an Indian Village	Dr. A. H. Somjee, Head, Department of Political Science, Faculty of Arts
( iii ) Collection, Study and Editing of the important Educational Records of Baroda State under Maharaja Sayajirao Gaekwad	Professor T.K.N. Menon, Dean, Faculty of Education and Psychology
( iv ) Assessing the results of Sterilisation operations	Dr. R. D. Pandit, Honorary Assistant, Obstetrician and Gynaecologist, Medical College
( v ) Heat transfer under free convection	Professor D. V. Gogate, Head, Department of Physics, Faculty of Science
( vi ) Study of the Development of Transport and the Rise of Towns in Gujarat	Shrimati V. A. Janaki, Head, Department of Geography, Faculty of Science

#### *Title of the Scheme*

#### *Conducted by*

( vii ) Survey of the Banking habit in Baroda City	Professor B. G. Shah, Dean, Faculty of Commerce
( viii ) Histo-physiological studies on the Diaphragm	Professor J. C. George, Head, Department of Zoology, Faculty of Science
( ix ) Inquiry into investigations on urinary excretions etc. and Inquiry into investigations on effect of different foods on the Urinary Quinine excretions etc.	Dr. M. L. Pai, Medical College
( x ) Stabilization of Heavy Clay	Professor P. J. Madan, Dean, Faculty of Technology and Engineering
( xi ) Swelling Pressure in Expansive Soils	Shri Piyush Parikh, Lecturer, Faculty of Technology and Engineering
( xii ) Study of properties of road stone aggregates of Gujarat area	Professor O. H. Patel, Head, Department of Civil Engineering, Faculty of Technology and Engineering
( xiii ) Investigation of factors of stress concentration in bars with sharp grooves and fillets in tension	Shri R. T. Shah, Lecturer in Mechanical Engineering, Faculty of Technology and Engineering
( xiv ) The power consumption of a Flyer frame	Professor K. H. Patel, Head, Department of Textile Engineering, Faculty of Technology and Engineering



<i>Title of the Scheme</i>	<i>Conducted by</i>
( xv ) To devise a machine which will directly operate the jacquard through the agency of a photo etc.	Shri S. S. Dighe, Reader in Textile Engineering, Faculty of Technology and Engineering
( xvi ) Filtration and disinfection equipment for village water supplies	Professor C. H. Khadilkar, Professor of Civil Engineering, Faculty of Technology and Engineering
( xvii ) Studies on the isolation of suitable algae required for sewage purification	Professor A. R. Chavan, Professor of Botany, Faculty of Science
	and Professor C. H. Khadilkar, Professor of Civil Engineering, Faculty of Technology and Engineering
	and Shri V. K. Shah, Lecturer in Bio-chemistry, Faculty of Science
( xviii ) Mesomorphism and Chemical Constitution	Dr. J. S. Dave, Reader in Chemistry, Faculty of Science
( xix ) A Survey and Evaluation of the Administration of School System in India	Professor S. N. Mukerjee, Head, Department of Educational Administration, Faculty of Education and Psychology
( xx ) Industrial Relations Survey of Baroda	Shri G. P. Asthana, Reader in Business Administration, Faculty of
	and

<i>Title of the Scheme</i>	<i>Conducted by</i>
Selection of Training procedures for employees in some of the largest employing establishments in Baroda	Commerce
( xxi ) To calculate norms on "Phatak's Drawaman's Test for Indian Children" for Children in Gujarat etc.	Dr. (Mrs.) P. Phatak, Reader, Faculty of Education and Psychology
( xxii ) Synthesis and Study of ion exchange compounds	Dr. S. L. Bafna, Reader in Physical Chemistry, Faculty of Science
The Syndicate approved the schemes on the recommendations of the Council.	
( b ) The Council recorded the progress reports of the following Research schemes and recommended continuation for one more year.	
( i ) Biosynthesis of Carotenoids in the Micro-organisms	Dr. V. V. Mody, Reader in Bio-chemistry, Faculty of Science
( ii ) Studies in Vital Statistics, Baroda City	Professor N. M. Bhatt, Dean, Faculty of Science and Shrimati Indira Bhanot, Reader in Statistics, Faculty of Science
( iii ) A Scheme for Statistical Analysis of Preparatory Science examination results	Professor N. M. Bhatt, Dean, Faculty of Science
( iv ) Flora of Pavagadh	Professor A. R. Chavan, (Dr. V. G. Phatak) Head, Department of Botany, Faculty of Science



<i>Title of the Scheme</i>	<i>Conducted by</i>
( v ) The effect of structure on the Transition Temperature of mixed liquid crystals	Dr. J. S. Dave, Reader in Chemistry, Faculty of Science
( vi ) Interaction of Arsenitacetic acid and synthesis of Quinotone derivatives etc.	Dr. C. M. Mehta, Reader in Chemistry, Faculty of Science
( vii ) Study of Floristic Composition of the various gardens in Baroda	Professor A. R. Chavan, Head, Department of Botany, Faculty of Science
( viii ) Study of the effects of some growth regulating substances on Cotton, Sorghum and Wheat etc.	Dr. C. H. Pathak, Reader in Botany, Faculty of Science

( 2 ) The Council recommended that the

- Ahmedabad Textile Industry's Research Association ( ATIRA ), Ahmedabad-9 and
- Regional Research Laboratory, Hyderabad-9 ( Council of Scientific and Industrial Research, Government of India ) be recognised for carrying on research by our students for the Ph. D. degree of this University.

The Syndicate approved the recommendation.

- The Council recommended for approval the rules for Senior authorship of papers for publication of papers prepared from investigations carried with the help of grants made by the University from its own funds or by other sources through the University.
- The Council recommended that the Council of Post-graduate Studies and Research be divided by the Statutes into two following divisions, as provided under section 27 ( i ) ( ii ) :
  - the Faculties of Arts, Education and Psychology, Commerce, Law, Fine Arts, Home Science and Social Work ; and

- the Faculties of Science, Medicine, Technology and Engineering, and Agriculture.
- ( 5 ) The Council recommended the recognition of 59 additional teachers as Post-graduate teachers in various subjects in the Syndicate each of them.

## 2. Faculties

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

<i>S.No.</i>	<i>Name of the Faculty</i>	<i>Date of the meeting</i>
( i )	Arts	14th February, 1960
( ii )	Science	14th February, 1960
( iii )	Education and Psychology	12th October, 1960
( iv )	Commerce	14th February, 1960
( v )	Medicine	21st November, 1959
( vi )	Technology and Engineering	5th October, 1959
( vii )	Fine Arts	1st March, 1960
( viii )	Home Science	15th October, 1959
( ix )	Social Work	16th November, 1959
( x )	Joint meeting of the Faculties of Arts, Science and Commerce	14th February, 1960
( xi )	Joint meeting of the Faculties of Arts and Commerce	14th February, 1960

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

### ( a ) Faculty of Arts

- Institution of a Course at M.A. with 8 papers in Ancient Indian History, Philosophy and Classics in the Faculty of Arts ;
- Revision of syllabi in Gujarati, Hindi, English, Persian and Archaeology and Ancient History at the three year B.A. Examination and M.A. examination ;
- Formulating the syllabus in English for different examinations leading to B.A. ( Fine ) ;
- Approving the syllabus in English for the First Year Diploma in Engineering ;



- ( v ) Approving the proposal that the courses at M.A. in History be offered in their entirety as proposed and that only Group A be allowed to be offered for combination with subjects other than History;
- ( vi ) Continuing Logic to be offered under the Head Philosophy at the F.Y.B.A. ;
- ( vii ) Approving the syllabi for the paper of Law at the F.Y.B.A. Examination ;
- ( viii ) Revision of the syllabus for F.Y.B.A. and S.Y.B.A. in Sociology.

**( b ) Faculty of Science**

- ( i ) A course in Embryology as a special paper for M.Sc. Zoology be introduced recommending syllabus and the books for the same ;
- ( ii ) Recommended a course at the M.Sc. level on Fishery, Biology and the establishment of a Marine Biology Station under the control of the University ;
- ( iii ) Considered the report of the Committee appointed by the Board of Studies in Psychology and recommended that the Faculty is not in favour of introducing Psychology as a subsidiary subject for B.Sc. degree.

**( c ) Faculty of Education and Psychology**

- ( i ) Introduction of B.Sc. ( Subsidiary ) Course in Psychology ;
- ( ii ) Renaming of the present " Diploma in Teaching " ( T.D. ) as " Diploma in Education ". ( Dip. Ed. ) ;
- ( iii ) Revised the standards for passing and awarding classes at the B.Ed. and T.D. Examinations.

**( d ) Faculty of Commerce**

- ( i ) Revision of the pattern of the three year integrated course leading to the degree of Bachelor of Commerce and de-grouping to be made effective from the S. Y. B.Com. Examination of 1961 and the B.Com. Examination of 1962 ;
- ( ii ) Revision of the Scheme for M.Com. Examination consisting of ( a ) four compulsory papers and ( b ) four optional papers to be selected from any two groups or two optional papers

from one group and a dissertation of 200 marks on a subject allied to the group in lieu of which the dissertation is submitted ;

- ( iii ) The subject of Insurance be not included in the list of optionals at the B.Com ;
- ( iv ) Students who pass the B.Com. Examination with 50%, 60% and 70% marks on the aggregate of all the seven heads be declared to have passed the B.Com. Examination in II Class with Honours, I Class with Honours and I Class with Distinction respectively ;
- ( v ) Revision of the Syllabus for the Post-graduate Diploma in Co-operation to be started from June, 1960 ;

**( e ) Faculty of Medicine :**

- ( i ) Amendment of Ordinance pertaining to the M.D. and M.S. degree Examinations ;
- ( ii ) The age of admission to a Medical College be 17 years to be completed on 1st October of the year of admission as recommended by the Medical Council of India ;
- ( iii ) Students passing the B.Sc. Degree Examination with I Class with Physics as a Principal ( Major ) subject be also considered eligible for admission to the I.M.B., B.S. in the Medical College, Baroda ;
- ( iv ) Simultaneous registration for a Post-graduate degree and diploma in the same as well as allied subjects be permitted ;
- ( v ) Results of the M.Sc. Examination in Medical subjects be declared according to the rules prescribed for the M.Sc. Examination in the Faculty of Science ;
- ( vi ) Second Clinical term be split up into two and students be divided in two batches ;
- ( vii ) Draft Ordinances for the new branches in M.S. Orthopaedics and Oto-Rhino-Laryngology ;
- ( viii ) The Faculty of Medicine be excluded for the award of the " Chancellors Gold Medal " and the results of M. D. and M.S. degree examinations be declared in two categories be declared in two categories viz, Pass and Pass with distinction ;



- ( ix ) Exact course and facilities in rural centres for Post-Examination Training.

**( f ) Faculty of Technology and Engineering :**

- ( i ) Revision of Courses and Syllabi for F. E., S. E., T. E. and B. E. Examinations ;
- ( ii ) Revision of Courses and Syllabi for M. E. Examination ;
- ( iii ) Increasing the period of field experience at all the M. E. Courses ;
- ( iv ) Provision for allowing students 3 consecutive trials to appear at the F. E. ( New ) and First Year Diploma Examination after completion of terms at the First year of the Degree and First Year of the Diploma Classes respectively ;
- ( v ) Draft syllabi for Paper ' 25 Spinning and Weaving Calculations ' of the T. Text. Tech. ( New ) Examination.

**( g ) Faculty of Fine Arts :**

- ( i ) Revision of syllabi, scheme of Examination etc. for the Bachelor of Architecture ( B. Arch. ) Examination ;
- ( ii ) Amendment of Ordinance 708 governing the admission requirements for the F. Y. B. Arch. Course ;
- ( iii ) Drawing up of a detailed Text-Book-cum-reference reading plan for each topic of study in the degree and diploma courses of Music, Dance and Dramatics from the 1st year to the final year ;
- ( iv ) Revision of syllabi for the Diploma courses in Vocal Music ;
- ( v ) Fixing the age limit for students seeking direct admission to the Diploma Courses in Music, Dance and Dramatics.
- ( vi ) Drawing up a list of classical books written in English\* for Painting, Sculpture and Applied Arts ;
- ( vii ) Reviewing the admission requirements for students seeking admission to the F.Y. Degree Course in the Faculty of Fine Arts and in the College of Indian Music, Dance and Dramatics ;
- ( viii ) Provision for granting exemption to a student who has failed to pass Final Year Degree or Diploma Examination under the Faculty of Fine Arts and retaining the exemption earned for a period of three years only.

**( h ) Faculty of Home Science :**

- ( i ) Detailed Syllabi, Courses, etc. for the revised Scheme for Master's degree in Home Science in ( a ) Foods and Nutrition, ( b ) Child Development, ( c ) Home Management, ( d ) Home Science Education and ( e ) Clothing and Textiles ;
- ( ii ) Revision of the Syllabus in Clothing and Textiles for B.Sc. ( Home ) Examination ;
- ( iii ) Students be allowed to register in the second term for M.Sc. ( Home ) Degree or Post-graduate Diploma in Nursery School Education and B.Sc. ( Home ) Examination for advanced students be held in March-April and as well in October, from October, 1960 ;
- ( iv ) M.Sc. ( Home ) students must pass M.Sc. ( Home ) Examination in a period of five years after registration as a Post-graduate student and of the four terms a student must keep at least two consecutive terms at the M.Sc. ( Home ).

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

- ( i ) Amended curriculum and reading list for the academic years 1960-1962.

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

- ( i ) Drawing up the Syllabus for Paper I—Elements of Economics to be taken at T.E. ( New ) and Works Management and Business Organisation to be taken at B.E. Examination ;
- ( ii ) Mathematical Economics and Econometrics comprising into a group of two papers be introduced as optional papers to be offered as papers VII and VIII in Economics at the M.A. ;
- ( iii ) Revision of the Scheme for the M.A. Degree Examination in Political Science at the M.A. will have to offer all the eight papers in Political Science only. However a student will be permitted to offer a dissertation in lieu of Part IV ( Paper VII and VIII ) as per revised Scheme.

**( k ) Joint Faculties of Arts, Science and Commerce**

- ( i ) Requiring students migrating from other Universities and joining this University in second year of the three year degree course in Arts or Science or Commerce to satisfactorily complete General Education Course of the second year only.



Exempting students migrating from other Universities and joining this University in the Final Year of the three year degree course in Arts or Science or Commerce doing the General Education Course.

- ( ii ) Declaring the results of the degree Examinations under the three year degree courses in Arts, Science and Commerce as under as from the Examinations of 1960.

*Examinations*

Bachelor of Arts,  
Science and Commerce

*The Results, How published*

In First Class with Distinction, First and Second Class with Honours and Pass

- ( iii ) Requiring Post-graduate students who after having kept all the four terms, do not appear or after having failed, do not re-appear at the respective M.A., M.Sc. or M.Com. Examinations within five years thereafter to keep two consecutive terms afresh prior to their appearing for the examination.

- ( iv ) Permitting Dissertation in lieu of one paper or two papers at M.A., M.Sc. and M.Com. Examinations.

**3. Boards of studies**

There are 38 Boards of Studies. Their meetings were held in the year as shown below :

S.N.	Name of the Board	Date of the meeting
( i )	Sanskrit, Pali and Ardha-Magadhi Languages and Literature	12th September, 1959
( ii )	Persian, Urdu and other Asian Languages and Literature	27th November, 1959
( iii )	Hindi Language and Literature	16th October, 1959
( iv )	Gujarati Language and Literature	17th October, 1959
( v )	Marathi Language and Literature	11th September, 1959
( vi )	English Language and Literature	28th September, 1959
( vii )	Modern and Ancient European Languages and Literature	10th October, 1959
( viii )	Sociology	17th October, 1959
( ix )	History, Archaeology and Ancient Indian Culture	28th September, 1959
		12th September, 1959

S.R.	Name of the Board	Date of the meeting
( x )	Philosophy	12th September, 1959
( xi )	Linguistics	15th September, 1959
( xii )	Library Science	2nd September, 1959
( xiii )	Law	18th October, 1959
( xiv )	Physics and Meteorology	15th October, 1959
( xv )	Chemistry	10th October, 1959
( xvi )	Botany	29th November, 1959
( xvii )	Zoology	12th October, 1959
( xviii )	Bio-Chemistry	19th October, 1959
( xix )	Education	12th October, 1959
( xx )	Psychology	12th October, 1959
( xxi )	Commerce including Business Organization, Accountancy and Audit, Banking, Transport and Cotton Industry	16th September, 1959
		14th February, 1960
( xxii )	Anatomy and Physiology	21st September, 1959
( xxiii )	Pharmacology and Pathology	10th October, 1959
( xxiv )	Medicine, Surgery, Midwifery etc.	29th August, 1959
( xxv )	Technology ( Textile )	5th October, 1959
( xxvi )	Engineering	5th October, 1959
( xxvii )	Painting, Sculpture and Applied Arts	28th November, 1959
( xxviii )	Architecture	23rd October, 1959
( xxix )	Music, Dance and Dramatics	28th November, 1959
( xxx )	Museology	19th December, 1959
( xxxi )	Home Science	15th October, 1959
( xxxii )	Social Work	16th November, 1959
( xxxiii )	Mathematics	7th October, 1959
		8th October, 1959
		20th November, 1959
		21st November, 1959
( xxxiv )	Statistics and Actuarial Science	12th October, 1958
( xxxv )	Geology	24th October, 1959
( xxxvi )	Geography	15th October, 1959
( xxxvii )	Economics	24th October, 1959
( xxxviii )	Politics and Administration	19th October, 1959



*Joint meetings*

- |   |  |                     |
|---|--|---------------------|
| 1 | Joint meeting of Engineering and Technology ( Textiles )                   | 5th October, 1959   |
| 2 | Joint meeting of the Board of Studies in Sanskrit, History and Philosophy. | 12th November, 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.

A meeting of the Joint Board of Studies in Sanskrit, History and Philosophy was held on the 12th September, 1959 under the Chairmanship of the Vice-Chancellor of the University to consider the question of introducing the courses for M.A. in Ancient Indian History, Philosophy and Classics. The Boards recommended that the proposed courses of eight papers for M.A. in Ancient Indian History, Philosophy and Classics be introduced. This has been duly approved by the Faculty and the Syndicate.

## CHAPTER VI—OTHER BOARDS AND COMMITTEES

**General**

Besides the authorities mentioned in the forgoing 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**

Three meetings of the Board were held during the year. The Inter-University Foot-ball Tournaments ( West Zone and Semi finals ) were held at Baroda in the month of September, 1959. The Board appointed Selection Committees to select teams to represent the University in the Inter-University Tournaments. The Board also appointed coaches for Kho-Kho team ( Men and Women ), Hockey and Foot-Ball. The post of Swimming Pool Attendant was raised to that of a Swimming Pool Attender. Captain V. S. Hazare was given 'University Colours' as an outstanding cricketer. The Cricket, Badminton, Table Tennis, Volley-Ball, Wrestling, Kabaddi, Basket-Ball, Kho-Kho ( Men and Women ), Hockey ( Men ), Boxing and Athletics teams were sent to participate in the Inter-University Tournaments.

**2. Publication Board**

The Board met on the 12th August, 1959 and considered 13 items. The Board approved the minutes of the Sub-Committee appointed to review the rules of publication of works under different series, and the discounts to the teachers and students as well as bonafied booksellers and publishers. It approved that all bonafide students and teachers be given a discount of 15% and all bonafide booksellers and publishers be given a discount of 25%. The Board considered and recommended the publications of the following works by the University :

S. No.	Title	Estimated cost Rs.
( i )	Main Currents in History of Ancient Gujarat by Dr. B. A. Saletore	1,000
( ii )	Hindu Veda Dharma ( reprint ) by late Dr. Anand-shanker Dhruva	3,300
( iii )	Teaching of Commerce in Secondary Schools	500



<i>S. No.</i>	<i>Title</i>	<i>Estimated cost</i> <i>Rs.</i>
( iv )	A new approach towards History in Social Studies	600
( v )	Progressive Matrices Test applied to a group of Secondary School-going children in Gujarat	400
( vi )	Research Monograph on Child concept of physical casualties by Dr. ( Kumari ) Prem Pasricha	400
( vii )	Electric Power and Prospects of some electro-metallurgical industries in India by Dr. T. Bannerjee	1,324

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

### 3. Board of Extra Mural Studies

The Board of Extra Mural Studies met once during the year on the 8th September, 1959. The programme of Extra Mural activities carried on in the Faculties and Institutions during the year 1958-59 was reviewed. The Board considered the recommendations received from the Deans and the Heads for the programme to be carried on during the year 1959-60 and made suitable recommendations regarding extension lectures, tours, exhibitions, etc.

### 4. Library Committee

The Meeting of the Library Committee was held on the 13th July, 1959. The Committee recommended standing Vendors for the purchase of books and periodicals during the year 1959-60. It allocated the annual book grant of Rs. 20,000/- to various subjects. The Library rules were amended to include the use of Reference service by any concern or Organisation in Baroda; the Officers of the University upto the grade of Lecturers to be given 6 volumes on loan, etc. The Committee also recommended that the Library be kept open on all holidays and Sundays in the second term and also upto 10-00 p. m. on all days during the second term.

### 5. Students' Advisory Bureau for Studies in India and abroad

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

- ( 1 ) Total number of Handbooks, Calendars, etc. in the Bureau on 1-7-1959

( 2 )	Handbooks, Calendars, etc. added during the year	395
( 3 )	Number of persons whose applications were forwarded to U. K., U. S. A. and other countries	13
( 4 )	Written queries replied to during the year	65

The Bureau also supplied information regarding higher studies in India and abroad to 295 persons who called at the office personally during the period under report.

The following literature prepared in the Bureau last year has been found very useful for guiding persons visiting this Bureau as well as for replying to queries received by post

- ( 1 ) Cyclostyled pamphlet concerning courses available and degrees and diplomas awarded to external students in the various universities of India ;
- ( 2 ) Alphabetical Classification of courses available in a particular University of U. K. or U. S. A. ;
- ( 3 ) Alphabetical arrangement of a particular course available at various Universities of U. K. and U. S. A.

### 6. Standing Committee on Equivalence of Examinations

The Standing Committee on Equivalence of Examinations met twice during the year on the 14th July, 1959 and on the 14th March, 1960. 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 passed the F.Y. ( Pre-University ) Science examinations or the Inter Science examination of the Gujarat University and joined the Pre-Engineering ( i.e. F.E. ( New ) )/Pre-Medical classes as the case may be may not be allowed to continue their studies in the said classes, the Provisional or Final eligibility certificates, if issued, to them be treated as cancelled and their admissions to the F.E. ( New )/Pre-Medical classes be cancelled in view of the fact that the Gujarat University refused the issue of eligibility certificates to students of this University for admission to the Engineering courses of the Gujarat University. It also recommended to the Syndicate that the ( i ) Inter Science examination and ( ii ) F.Y. ( Pre-University ) Science examination of the Gujarat University or the F.Y. Science examination conducted by colleges affiliated to the Gujarat Univer-



sity be not recognised as equivalent to the corresponding examinations of this University for purposes of admission to the Professional courses in Engineering and Technology and the Professional courses in Medicine.

## 7. Boards of Visitors

The meetings of the Boards of Visitors for the Faculty of Arts, Faculty of Education and Psychology, Faculty of Fine Arts, Faculty of Social Work, Intermediate College, Oriental Institute, College of Indian Music, Dance and Dramatics and the Polytechnic were held during the year. The reports of these meetings were submitted to the Syndicate. Some of the important recommendations made by these Boards and approved by the Syndicate are as under :

(a) *The Faculty of Arts*: The Board met on the 16th November, 1959. It recommended that (i) out of four posts of clerks, one post be filled up by a clerk with good speed in typing, (ii) a new post of a faras be created in the Faculty, and (iii) a temporary post of a Lecturer in Law be created for a period of one year from June, 1960.

(b) *The Faculty of Education and Psychology*: The Board met on the 10th February, 1960. It recommended that (i) no new admissions be granted to M.Ed. course by thesis only as from the academic year 1960-61, (ii) a three years' integrated course leading to the degree of B.A. (Education), after Preparatory Course, be approved, (iii) a post of a Lecturer in Education be created, and (iv) a post of Laboratory Assistant in Psychology be created.

(c) *The Faculty of Fine Arts*: The Board met on the 16th February, 1960. It recommended that (i) a department of Graphic Arts be created in the Faculty, and a new post of a Reader in Graphic Arts be instituted, (ii) An amount of Rs. 12,000,- be sanctioned for setting up the Art History Museum.

(d) *The Faculty of Social Work*: The Board met on the 10th February, 1960. It recommended that (i) the existing post of Field Assistant of the grade of Rs. 100-10-200 be raised to that of Agency Supervisor of the grade of Rs. 250-20-500, (ii) the number of students to be admitted in the Faculty be raised from 30 to 40 as from the academic year 1960-61, and (iii) a part-time Psychiatrist be appointed in the Mental Hygiene and Psychiatric Clinic.

(e) *The Intermediate College*: The Board met on the 17th November, 1959. It recommended that (i) the Preparatory Year be considered the first year of a three year General Education programme, (ii) the present designation 'Principal, Intermediate College' be modified as 'Head, Preparatory Unit' from the year 1960-61, (iii) the Head, Preparatory Unit be assisted in his work by the staff of the General Education Department and other members of the teaching staff of the Faculties of Arts, Science and Commerce selected by a Committee consisting of the Deans of three Faculties and the Director of studies; (iv) the members of the teaching staff selected as per clause (iii) above will teach and will also work as liason with the various Departments of the Faculties for the arrangement of teaching work, supervision and assessment at Tests and Examinations, maintenance of progress records of students and organisation of extra-curricular activities; (v) the number of admissions to the Preparatory Science Class be increased to 540 (six divisions of 90 students each) if the Government of Bombay agrees to give adequate grant for setting up a new laboratory and other necessary additional recurring expenditure. In the absence of any such grant the present strength of 480 students be maintained; (vi) the present set-up of papers in the Preparatory Courses is satisfactory but the question of changing the syllabi of the compulsory paper, (2) Literature, Hindi, Gujarati and (3) Social Studies be referred to the Preparatory Courses Committee as per discussion in the meeting; (vii) Senior members of the Faculty staff give atleast eight lectures per year on selected topics in the Preparatory Courses.

(f) *The Oriental Institute*: The Board met on the 17th November, 1959. It recommended that (i) Shastras for which the teachers of the Institute are recognised for Post-graduate teaching be incorporated in the prospectus of the Faculty of Arts, (ii) the Director and the Deputy Director should give a few lectures under the General Education Programme, (iii) the present grant for publishing Shri Sayaji Sahityamala books be increased by Rs. 5,000/- and (iv) the work of publishing books under the Gaekwad Oriental Series approved during the Second Five Year Plan be expedited and efforts be made to utilise the grants sanctioned for these publications by the 31st March, 1961.

(g) *The College of Indian Music, Dance and Dramatics*: The Board met on the 17th February, 1960. It recommended that (i) the present Post-graduate instruction in Vocal Music, Sitar and Violin, Bharat



Natyam and Kathak Dance and Dramatics, degree courses and Post-graduate Diploma instructions in Kathak Dance be continued and admissions there to be made after considering the existing facilities available for instruction in the matter of staff, equipment and accommodation, (ii) a post of Lecturer in Sitar and a post of Lecturer in Dance (Kathak) be instituted, (iii) two posts of Ustads of the grade of Rs. 100-200, three posts of Accompanists of the grade of Rs. 60-90 for Tabla accompaniment be created, (iv) the present designation of Ustads of the grade of Rs. 60-90 be changed to 'Accompanists', (v) the existing grade of Ustads viz. Rs. 80-5-150-EB-10-200 be slightly modified to Rs. 100-10-150-EB-10-200, and (vi) a new post of a peon be created for the new building.

(h) *The Polytechnic*: The Board met on the 10th March, 1960. It recommended that (i) the teacher student ratio should be 1 to 12. In order that this ratio be maintained, 8 new posts of lecturers and 10 new posts of demonstrators be created. The normal work-load of teachers in the Polytechnic should be according to the normal work load of the teachers in the University; (ii) there be a leave reserve staff of at least one teacher in each major department to avoid dislocation of work when teachers go on short leave; (iii) over and above 300 students to be admitted in the First Year, the Principal should admit 10% additional students in the beginning of the First Term to provide for the situation that some students leave the course after the last date of admission is over; (iv) Post-Diploma courses in (a) Automobile Engineering, (b) Refrigeration and Air-conditioning be started in the Polytechnic subject to grant being available from the Government; (v) Cycle-shed for 600 bicycles be constructed subject to funds being available; (vi) Boiler shed about 20' x 30' for Boiler etc. for the Heat Engines Laboratory is most essential and be provided; (vii) a separate room about 12' x 12' required for the installation of the Gas-plant for the supply of Gas to the Physics and Chemistry Laboratories be provided.

#### 8. Wardens in Halls of Residence

The appointments of the following persons as Wardens of the Halls of Residence mentioned against their names were continued for a further period of one year from the 1st June, 1960 as recommended by the Committee:

S.No.	Name of the person	Name of the 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	Shri Maharshi Arvind Hall
4.	Shri K. S. Yajnik	Shri T. K. Gajjar Hall
5.	Shri C. M. Patel	Hall of Residence for Engineering students

The appointment of Professor C. M. Shukla as Chief Warden was also continued till further orders.

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

The Committee met once during the year on the 11th October, 1959. It recommended that (i) it was not advisable to accommodate three students in one room and (ii) the University arrange to have residential accommodation for 3,000 men students and 1,000 women student, by the end of the Third Five Year Plan.

#### 10. Finance and Establishment Standing Committee

The Committee held seven meetings during the year and considered several items concerning requests for additional establishment, grants, purchase of equipment, approval of plans, estimates and tenders for construction of works, contracts for stitching of uniforms for Class IV servants, oiling and cleaning of typewriters, supply of charcoal, repairs to musical instruments etc. and requests from the members of the staff regarding study leave, leave without pay for studies abroad and extension of re-employment periods of employees, etc. The recommendations of the Committee were placed before the Syndicate on the same day.

The Committee met as Budget Committee on the 16th and the 17th January, 1960. It submitted to the Syndicate the revised estimates for the year 1959-60 and the estimates for the year 1960-61, after scrutinising various proposals received from the Faculties, Institutions and Officers of the University.

#### 11. Investment Committee

The Committee held seven meetings during the year. The recommendations of the Committee concerning the investment etc. of the University funds were submitted to the Syndicate.

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

The Committee met once during the year on the 21st December, 1959. It recommended (i) that the students passing the S. S. C. Exa-



mination with English as one of the subjects taking the benefit of combined passing and combined exemption be considered eligible for admission to various courses of studies under provisions of Ordinances 168, 170, and 708 upto October, 1960, (ii) that the Examiners' reports in different subjects of the Preparatory Courses alongwith the note by the Head, Preparatory Unit be referred to the departments concerned for taking necessary action and (iii) the Examiners to be appointed at the Preparatory courses examinations for the year 1960.

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

The Committee met once during the year on the 18th January, 1960. It reviewed the work done by the Department of General Education during the First Term of the academic year 1959-60. It recommended that (i) the reading material be prepared on the basis of topics in the syllabus, and that the names of the authors be stated on the same, (ii) a small Committee consisting of the Dean, the Head of the Department and the teachers concerned be constituted to supervise the preparation of reading material, and (iii) in the interest of the continuity of teaching, one teacher be entrusted with the teaching of all the sections of a topic in a class.

### 14. Examination Reforms Committee

The Examination Reform Committee was re-constituted under Syndicate Resolution No. 40 dated 12-4-1958. The Committee made a number of recommendations for improving the present system of examination and most of the recommendations were accepted by the syndicate. During the year (July 1959 to March, 1960) the Committee met four times and made recommendations regarding the number of periodical tests to be taken during the year, distribution of marks for Class Records, types of question papers to be set at the tests, conduct of interview, the scheme of Grade and Credit assessment in the Faculty of Fine Arts, over-all grades obtained by candidates in General Education, and the possibility of arriving at A. T. K. T. provisions for the examinations conducted by the University for the courses in the Faculty of Technology and Engineering and in the Polytechnic.

### 15. Selection Committees

During the period from the 1st July, 1959 to the 31st March, 1960 there were eleven meetings of Selection Committees appointed under

section 48 (2) of the Act and the Committees recommended 14 candidates for appointment to the posts of Professors and Readers. There were also 51 meetings of Selection Committees for Junior Posts and 7 meetings of Selection Committees for Class III Posts. 64 and 18 candidates respectively were recommended by these committees for the appointment to different posts in the University.

### 16. Shri Sayaji Sahityamala Publications Committee

The Committee met once during the year on the 30th July, 1959 and considered two items by circulation. It recommended the following publications :

#### (1) Under Shri Sayaji Sahityamala :

1. प्रोफेसर त्रिभुवनदास कल्याणदास गज्जरनी by Dr. A. M. Trivedi, Professor S. J. जीवनकथा Shah, and Dr. R. K. Shah.
2. आपणी खनीज सम्पत्ति by Dr. N. M. Shah.
3. आपणुं दिश्व by Shri Chhotubhai Suthar.

The Committee also permitted Shri A. R. Desai, son of the late Shri R.V. Desai to bring out the second edition of the books, 'महाराणा प्रताप' and 'नाना फडणवीस' published in Shri Sayaji Balajnanamala.

### 17. Building Planning Committee and University Building Committee

A Joint meeting of the University Building Committee and the Building Planning Committee was held on the 26th October, 1959. It recommended the programme of new construction works and recommended ordinary and special repairs to the buildings of the University to be carried out during the next year.

### 18. Press Supervisory Committee

The Press Supervisory Committee held nine meeting during the year. It considered the monthly reports of the Manager and the statements of work done in the Press. It recommended purchase of papers, stationery, etc. The Sales Section from the Oriental Institute was taken over by the Press and a University Publications Sales Unit was established under the control of the Press Manager. The University Press was recommended for the membership of the Printers' Materials Co-operative Society.

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

The Committee met once during the year on the 15th September, 1959. It considered brief reports on the working of the different N. C. C. Units in the University. It also sanctioned (i) amenity grants to the



different N. C. C. Units according to the scales laid down therefor, and (ii) an amount of Rs. 500/- each for purchase of Trophies, to the 20th Bombay Medical Coy. N. C. C. the 18th Bombay Engineering Platoon, N. C. C., and the 22nd Bombay Girls' Troop N. C. C.

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

The Committee met once during the year on the 27th November, 1959, and declared the result of the essay competition "ભારતના અર્થતંત્રમાં નવા હોળિયોત્તર રચના" for the year 1958-59. It also decided to invite Prize Essays on 'ભારતમાં શિક્ષણ' before the 15th June, 1960.

#### 21. Poor Students' Aid Fund Committee

Two meetings of the Committee were held during the year. The Committee considered the applications of students from the different Faculties and Institutions of the University for financial assistance from the Poor Students' Aid Fund and allocated the funds available to the different Faculties and Institutions.

#### 22. Deans' Committee

The meetings of the Deans of Faculties and Heads of Institutions was held twice during the year on the 14th October, 1959 and the 3rd March, 1960. At these meetings various administrative problems were considered and necessary recommendations were made to the Syndicate. The Committee recommended that the Deans of the Faculties and the Heads of the Institutions be requested to persuade the members of the teaching staff to offer themselves for pre-commission training. The programme of work of the University Students' Guidance and Counselling Centre was also discussed at the meeting and it was decided that the students who needed help be referred to the Centre, and the staff of the Centre be given necessary facilities for experimentation and research. It was decided that active co-operation be given to the General Education Programme. The question of reservation of seats for students from foreign countries who do not come under any of the schemes of the Government of India but come on their own, applying through the Government was considered by the Committee. It was decided that 10 seats in the Preparatory Science, 5 seats in the Preparatory Arts and 5 seats in the Preparatory Commerce be reserved for such foreign students and admissions be given by the Head, Preparatory Unit after considering each case on its own merit.

#### 23. Planning Forum

There is a University Co-ordinating Committee of the Planning Forums in the Faculties consisting of the Vice-Chancellor as its Chairman, Pro-Vice-Chancellor as Vice-Chairman, Registrar as Secretary, Deans of the Faculties of Arts, Commerce and Social Work, Professor I. S. Gulati, Professor of Economics and Shri H. C. Malkani, Reader in Economics (now on leave) and two students—one of Junior M.A. class and other of senior M.Com. class as its Members. The Committee co-ordinates and guides the work of the various planning forums in the Faculties and Colleges under the University. One meeting of the above committee was held on the 2nd December, 1959.

In addition to the above committee there are separate planning forums in each Faculty and they carry out useful activities. A small study group consisting of the senior students and at least one senior teacher is formed in each Faculty and College for carrying out the activities of Planning Forum of the Faculty or College concerned.

An Information Centre partially financed by the Government of India, Ministry of Information and Broadcasting, has been established and situated in the University Library for the display of literature, pamphlets etc. received from the Government pertaining to the Planning Forum subjects.

The Vice-Chancellor and Professor B. G. Shah, Dean of the Faculty of Commerce represented the University as members on the State Executive Committee of the University Planning Forums of the Gujarat State.

The Faculty of Arts Planning Forum arranged a symposium on the various aspects of the Second Five year Plan, a debate and film show and a small trip of the students to Padra and Sankheda during the year.

The Faculty of Education and Psychology started its activities by an introductory talk of Shri I. J. Das, a Lecturer in the Faculty. It also staged a drama "Abbadin Panthe", songs, recitation of poems etc.

The Faculty of Commerce arranged a film show and an exhibition showing the progress of planning in our country. Two teachers of the Faculty participated in the Symposium on planning arranged by the All India Radio, Baroda. During the National Plan days celebration, a symposium on the Third Five Year Plan was arranged in the Faculty under



the Chairmanship of the Vice-Chancellor, Dr. J. M. Mehta. The Faculty also arranged a prize debate on co-operative farming as well as a prize essay competition on objectives and priorities in the Third Five Year Plan.

The Faculties of Technology and Engineering and Home Science carried out some activities by arranging film shows on subjects considered of interest to the students of the Faculty.

The Faculty of Social Work arranged lectures of some prominent persons on various subjects, arranged a film show and celebrated the small savings fortnight.

The Preparatory Unit arranged an exhibition and a film show and also organised an essay competition during the year.

## 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 the 8th 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. 150 students registered for Ph. D. and 8 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
<b>Ph.D</b>					
<b>Faculty of Arts ( 14 )</b>					
1	M. M. Shah	22-7-1959	Dr. S. C. Misra	History	The relation of Peshwa and the Gaekwads of Baroda upto 1818
2	M.K. Thakkar	30-7-1959	Dr. A. N. Jani	Sanskrit	Bhakti-cult of the Bhagwat Purana
3	N. J. Shah	22-8-1959	Dr. A. G. Javadekar	Philosophy	Shri Vallabhacharya's Interpretation of the Bhagwat Gita
4	M.M. Chouhan	31-7-1959	Professor Chandra Prakash Singh	Hindi	A Critical Study of Maharaman Singh's Pravin Sagar
5	B. G. Desai	29-9-1959	Professor I. P. Desai	Sociology	Social Background of High School Students in Baroda District



1	2	3	4	5	6
6	A. D. Thakar	12-9-1959	Shri J. S. Pade	Sanskrit	Reconstruction of Sankha—Likhita Smrit—with a Critical Study
7	N. B. Bansal	1-10-1959	Professor Chandra Prakash Singh	Hindi	Chaitanya Sampradaya Ki Hindi Kavita
8	A. T. Joshi	29-9-1959	Professor Chandra Prakash Singh	Hindi	Hindi tatha Gujarati Ka Rasa-Sahitya
9	B. M. Upadhyaya	24-9-1959	Dr. U. P. Shah	Sanskrit	A cultural study of Manasollasa
10	R. R. Trivedi	19-1-1960	Dr. A. H. Somjee	Political Science	Leadership and decision making in the Uillage Panchayats of Gujarat
11	A. P. Bhatt	19-1-1960	Professor B. G. Shah	Economics	Development of Banking in Saurashtra (with special reference for Post-War Period)
12	R. N. Pandya	17-2-1960	Dr. R. M. Patel	Gujarati	Acharya Anand Shanker Dhruva
13	B. N. Bhatt	18-2-1960	Dr. A. N. Jani	Sanskrit	Srikantha-caritam—A Study
14	S. K. Desai	1-3-1960	Dr. S. C. Misra	History	Lives and times of Mahmud Shah Begada & Muzaffar Shah II of Gujarat
Faculty of Science (16)					
15	D. V. Naik	3-7-1959	Professor J. C. George	Zoology	Studies on certain aspects of structural and functional relationship in the animal body
16	M. D. Pillai	14-7-1959	Professor S. M. Sethna	Chemistry	Studies in coumarins
17	V. N. Upadhyaya	18-7-1959	Professor D. V. Gogate AND Dr. N. S. Pandya	Physics	Optical and allied properties of Regular Solution and their dependence on molecular structure

1	2	3	4	5	6
18	V. K. Shah	30-7-1959	Professor C. V. Ramkrishnan	Bio-Chemistry	Studies on Mold Metabolism
19	V. P. Bhatt	11-8-1959	Dr. N. S. Pandya	Physics	Study of some metal crystals
20	R. D. Rao	11-8-1959	Professor D. V. Gogate	Physics	Some Problems in heat transmission by convection
21	P. K. Koranne	31-8-1959	Professor D. V. Gogate	Physics	A study of some Heat Transfer Phenomena
22	A. K. Susheela	8-9-1959	Professor J. C. George	Zoology	Histo-Physiological studies on muscle
23	J. K. Majmundar	24-9-1959	Professor J. C. George	Zoology	Histological of Histochemical Studies on Avian Flight Muscle
24	B. M. Hegdekar	25-9-1959	Professor J. C. George	Zoology	Studies in the Physiology of Insects
25	H. R. Chokshi	17-11-1959	Professor C. V. Ramkrishnan	Bio-Chemistry	Bio-Chemical studies on Tibia grown in Vitro
26	V. N. Vallyathan	26-11-1959	Professor J. C. George	Zoology	Studies on Muscle Tissue
27	S. K. Shah	26-11-1959	Dr. S. P. Pandya	Physics	Structure and Properties of Light Nuclei
28	S. N. Padate	5-12-1959	Professor A. R. Chavan	Botany	Flora of Savli Taluka
29	V. M. Sukhawala	15-12-1959	Professor A. R. Chavan	Botany	Medicinal Importance of Families Prinulaceae and Molluginaceae



1	2	3	4	5	6
30	G. C. Shah	11-1-1960	Professor C. V. Ram- krishnan	Bio- Chemistry	Studies on Plant tissue culture
<b>Faculty of Education and Psychology ( 5 )</b>					
31	M. M. Shah	21-7-1959	Shri L. J. Bhatt	Education	A Study of Pupil attitudes and the problem of discipline in secondary schools
32	M. N. Palsane	9-7-1959	Shri L. J. Bhatt	Psychology	Standardization of multiphasic person- ality inventory
33	S. D. Kotwal	1-10-1959	Professor T. K. N. Menon	Education	A critical study of the In Service Train- ing Programme for Secondary School Teachers in India
34	D. B. Desai	1-10-1959	Professor S. N. Mukerji	Education	Evaluation of Seco- ndary Schools in Gujarat, Saurashtra and Kutch
35	D. R. Shah	26-10-1959	Dr. M. S. Patel	Education	The role of Dramatic activities in primary and secondary school Programme in India
<b>Faculty of Commerce ( 3 )</b>					
36	H. B. Desai	29-8-1959	Professor B. G. Shah	Commerce	The Indian Shipping industry with special reference to its post- war developments
37	B. H. Elavia	9-9-1959	Professor B. G. Shah	Co-opera- tion	Co-operative move- ments in Baroda district ( with special reference to the Co- operative Integrated Credit Scheme )
38	G. R. Shah	15-1-1960	Professor B. G. Shah	Banking	Comparative study of Amalgamation Movement among Commercial Banks

1	2	3	4	5	6
<b>M.Ed. By Thesis ( 8 )</b>					
1	J. R. Shukla	27-7-1959	Shri M. A. Quraishi	Education	The Structural ap- proach to the teach- ing of Hindi in Standards Vth and VIth
2	O. G. Desai	24-8-1959	Shri D. G. Apte	Education	An attitude survey of the community towards teaching in the secondary schools
3	P. K. Pandya	25-8-1959	Professor ( S. N. Mukerji	Education	A study of the at- titudes of secondary school pupils to- wards arithmetic in relation to their grade, sex and scholastic achieve- ment
4	R. C. Patel	12-10-1959	Dr. ( Shri- mati ) P. Phatak	Education	A critical study of the Home condi- tions, school condi- tions and leisure time activities of the Secondary High School Students of Anand Taluka
5	A. M. Desai	21-10-1959	Shri H. J. Fernandes	Education	Standardisation of an achievement test in General Science for Primary Teachers of Primary Training colleges of Gujarat
6	B. C. Parikh	6-11-1949	Shri M. B. Buch	Education	A Follow-up study of 1,000 S.S.C. stu- dents of Surat City
7	N. M. Shah	1-12-1959	Shri L. J. Das	Education	History of Educa- tion in Panchmahal District
8	N. A. Pandya	17-12-1959	Dr. M. S. Patel	Education	A mistake analysis of the written com- position of the pupils attending High Schools in the Baroda District



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

*Name of the Department and the teacher*

*Subject*

*Faculty of Arts*

1 *Philosophy :*

Dr. A. G. Javadekar

Theory and application of Axionoe-  
ties

2 *Sanskrit :*

(a) A. N. Jani

(i) Editing Rasakaumudi in the  
Gaekwar Oriental Series

(ii) Preparing a book on Harsha

(b) Dr. S. G. Kantawala

(i) Some further problems of the  
Matsya Purana

(ii) Some Vedic Problems

(iii) Preparing a book on Bana

3 *Political Science :*

(a) Dr. A. H. Somjee

(i) The exploratory Projection on  
Political Analysis

(ii) Problems of Political Investi-  
gation in Rural Areas

(iii) Leadership in an Indian Village

(b) Shri K. S. Desai

(i) Survey of Rural Local Govern-  
ment

(ii) Problems of Administration in  
two Indian Villages

4 *Economics :*

(a) Shri H. P. Chokshi

Growth and Scope of Corporate  
Taxation in India

(b) R. M. Patel

Agricultural Labour in Baroda Dis-  
trict

5 *Hindi :*

(a) Professor C. P. Singh

(i) हिन्दी नाट्यसाहित्य और रंगमंच की  
मीमांसा

(ii) शिवकविकृत दौलत बाग विलास

(b) Shri B. L. Sinha

पद्माकर और उनका काव्य

*Name of the Department and the teacher*

*Subject*

(c) Shri M. G. Gupta

पंद्रहवीं और सोलहवीं शताब्दी की हिन्दी कविता  
में भारतीय समाज एवं संस्कृति का स्वरूप तथा  
पूर्वकालिन सांस्कृतिक पृष्ठभूमि

(d) Shri M. G. Chaturvedi

हेमचंद्रिय अपभ्रंश

6 *Gujarati :*

(a) Shri I. A. Dave

A critical survey of old Gujarati  
Literature along with a study of the  
cultural data supplied by it.

(b) Shri S. H. Joshi

A critical edition of the Jnanagita  
1616 A.D. of Narahari with a study  
of the life and work of the old Guja-  
rati Literature

(c) Shri H. M. Trivedi

Professor B. K. Thakore—his life  
works

*Faculty of Science*

1 *Bio-chemistry :*

(a) Professor C.V. Ramkrishnan

(i) Studies on Tissue Culture

(ii) Studies in Intermediary Meta-  
bolism in Plants and Molds

(iii) Studies on Human Lactation

(iv) Studies on Food Yeast

(b) Dr. V. V. Modi

Bio Synthesis of Carotenoids in  
Molds and Plants

2 *Botany :*

(a) Professor A. R. Chavan

(i) Sedges of Gujarat

(ii) Morphogenesis of Cucurbitaceae  
and Passifloraceae

(iii) Floristic studies

(iv) Organogeny and Cyto-embryo-  
logical work on some of the  
Bicarpellates

(b) Dr. C. H. Pathak

Effect of Growth Promoting Subst-  
ances on Plants



*Name of the Department and  
the teacher*

*Subject*

3 *Chemistry :*

- (a) Professor S. M. Sethna (i) Synthesis of heterocyclic Compounds, from 1 and 2 anthrol  
(ii) Iodination and Chloromethylation of Compounds, chromones and Flavones  
(iii) Synthesis of Cyano Coumarins and Chromones  
(iv) Synthesis of Bicomaryo Derivatives

- (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  
(d) Dr. S. L. Bafna Ion-Exchange Resins

4 *Geography :*

- Shrimati V. A. Janaki (i) Historical Geography of Settlements—Kerala  
(ii) Urban Geography—Padra

5 *Mathematics :*

- Professor U. N. Singh Functional Analysis

6 *Physics :*

- (a) Professor D. V. Gogate and Shri K. R. Chaudhari Heat Transfer Phenomena

- (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

7 *Statistics :*

- (a) Professor N. M. Bhatt

- (i) Analysis of certain Examination Results  
(ii) Certain Problems in Mathematical Statistics

*Name of the Department and  
the teacher*

*Subject*

- (b) Shrimati I. V. Bhanot (i) Medical Inspection Reports  
(ii) Wastage and Stagnation in Universities

- (c) Shrimati I. V. Bhanot and Shri C. G. Khatri Vital Statistics—Baroda

- (d) Sarvashri C. G. Khatri and B. K. Shah Problems in curve—Fitting and Distributions

8 *Zoology :*

- (a) Professor J. C. George (i) Developmental Physiology  
(ii) Structure and Physiology of Muscle and Adipose Tissue  
(iii) Reptilian Anatomy and Physiology  
(iv) Avian Biology  
(b) Dr. R. V. Shah (i) Reptilian Anatomy and Physiology  
(ii) Vertebrate Embryology

*Faculty of Education and Psychology*

- (a) Professor T. K. N. Menon (i) Psychological Factors of Adolescent Adjustment and Maladjustment  
(ii) Evaluation of Multi-purpose Schools in Bombay State  
(b) Professor S. N. Mukerji Emerging Practices in Secondary School Administration in India  
(c) Dr. M. S. Patel (i) The Vowel Systems of Gujarati  
(ii) A Comparative Linguistic Analysis of English and Gujarati  
(d) Shri L. J. Bhatt (i) Social Mobility in Adolescent Individual Boys—Vocational Aspects  
(ii) Selection of Technical Personnel—A Review of Current Practices



*Name of the Department and  
the teacher*

*Subject*

- (iii) A Study of Inter-Relationship of a Direct Product (consciously reflected) and a By-Product (Unconsciously retained) of Man's Action
- (e) Kumari Prem Pasricha (i) Qualitative study of the Explanations of physical causality given by Preschool children  
(ii) A Study of the Written Vocabulary of the Sixth class children in Delhi Schools  
(iii) Projective Tests for Family Attitudes
- (f) Dr. Shrimati 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 Drawing.
- (g) Shrimati M. S. Warty Development of the concept of casual relations in children.
- (h) Shri M. B. Buch (i) Test of Social Intelligence.  
(ii) Study of Teachers' Attitudes towards their profession.  
(iii) Study of Teachers' Attitudes towards Extension Services Department.
- (i) Shri B. P. Lulla Inquiry into the requisite qualities of a secondary school Head Master as desired by parents of the school-going children.
- (j) Shri D. B. Desai (i) Intelligence Test 'Progressive Matrices Test Applied to a Group of Secondary School going children in Gujarat'.

*Name of the Department and  
the teacher*

*Subject*

- (ii) A new Approach of History towards Social Studies—New approach washed out with B.Ed. candidates on matter side.  
(iii) Evaluation of Secondary Schools in Gujarat—Educational Administration.
- (k) Kumari S. D. Kotwal Evaluation of In-service Training of Teachers in India.
- (l) Shri J. J. Mody Vowel System of Gujarati.  
*College of Indian Music, Dance & Dramatics*
1. *Music :*  
Professor R. C. Mehta Indian Music, its legend, history and heritage—Agra gharana Tradition and Chijas.
2. *Dramatics :*  
Professor C. C. Mehta Bibliography of Drama  
*Sanskrit Mahavidyalaya*
- (a) Shri H. C. Mehta (i) Kavya Mimansa of Rajshekhar translation, introduction and critical notes in Gujarati
- (b) Shri L. J. Zha (ii) Critical study of Jagannath. Jyotish Tatwa—Ancient work on Astrology with a commentary in Sanskrit.
- (c) Shri S. V. Bhattbhatt Arthasangraha of Laugakshi Bhaskar with commentary and introduction.



## CHAPTER VIII—FACULTY OF ARTS

### 1. Brief History

The Baroda College is the oldest institution transferred to the University. It was founded in the year 1881. It had the Arts and Science sides and was affiliated to the University of Bombay for all subjects of University education and upto the highest degrees in the Faculties of Arts and Science. For nearly 50 years 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 sides were organised into the Faculties of Arts and Science respectively from June, 1950.

### 2. Buildings

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 and the second floor of the new building of the Commerce Faculty to which the departments of Political Science and Economics have been shifted since June, 1959.

The rooms on the west wing of the building are being used by the Preparatory Unit for the offices of the Unit.

A separate hall has been constructed near the Faculty building for use by women students and it is used at present by the women students of the Preparatory Unit, Faculties of Arts, Science and Commerce and is known as the Ladies Common Room.

### 3. Courses of Studies

There is provision for the following courses :

- |                          |  |
|--------------------------|--|
| (1) B.A., M.A. and Ph.D. | English, Gujarati, Marathi, Hindi, Sanskrit, Sociology, History, Philosophy, Economics, Political Science, Psychology, Archaeology and Ancient Indian Culture. |
| (2) B.A. and M.A.        | Persian, Statistics, Geography and Mathematics   |
| (3) M.A. (Sub.)          | Linguistics  |

- |                                 |                   |
|---------------------------------|-------------------|
| (4) B.A. (Sub.) and M.A. (Sub.) | Pali, Urdu        |
| (5) B.A. (Pri.) and B.A. (Sub.) | Law               |
| (6) B.A. (Sub.)                 | French, Education |
| (7) Post-graduate Diploma       | Library Science   |

### 4. Number of students

The number of students enrolled in the various classes at the commencement of the year 1959-60 was as under :

Class	Men	Women	Total
F. Y. B. A.	255	157	412
S. Y. B. A.	188	76	264
T. Y. L. A.	195	76	271
Dip. Lib. Sc.	17	3	20
Jr. M. A.	62	14	76
Sr. M. A.	58	12	70
Ph. D.	15	1	16
	<hr/> 790	<hr/> 339	<hr/> 1,129

### 5. Staff

During the year, the staff of the Faculty consisted of 6 Professors, 10 Readers, 45 Lecturers, 20 Tutors, 2 Part-time Teachers, 13 Class III and 18 Class IV servants. Teachers of the Faculty also carried out teaching assignments in the Faculties and Institutions where Humanities and Social Sciences are included in their various courses.

### 6. Library

Under the University scheme of amalgamation of the Libraries of Institutions the Library of the Faculty of Arts was amalgamated with the University Library. Some periodicals are being supplied for the Teachers' Common Room by the University Library. Different departments of the Faculty have been loaned some selected books by the University 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.

### 7. Museum, Laboratories and Studios

This year the implementation of the scheme of expansion of the department of Archaeology sanctioned by the University Grants Commis-



sion was taken up. The construction of the building is in progress. Most of the equipment needed for the Laboratory was also acquired during this period.

The Buddhist site at Devnimori was excavated at the suggestion of Dr. Jivraj N. Mehta, Chief Minister, Gujarat State, as it is to be submerged under an irrigation reservoir.

The following is the statement of the cost of equipment :

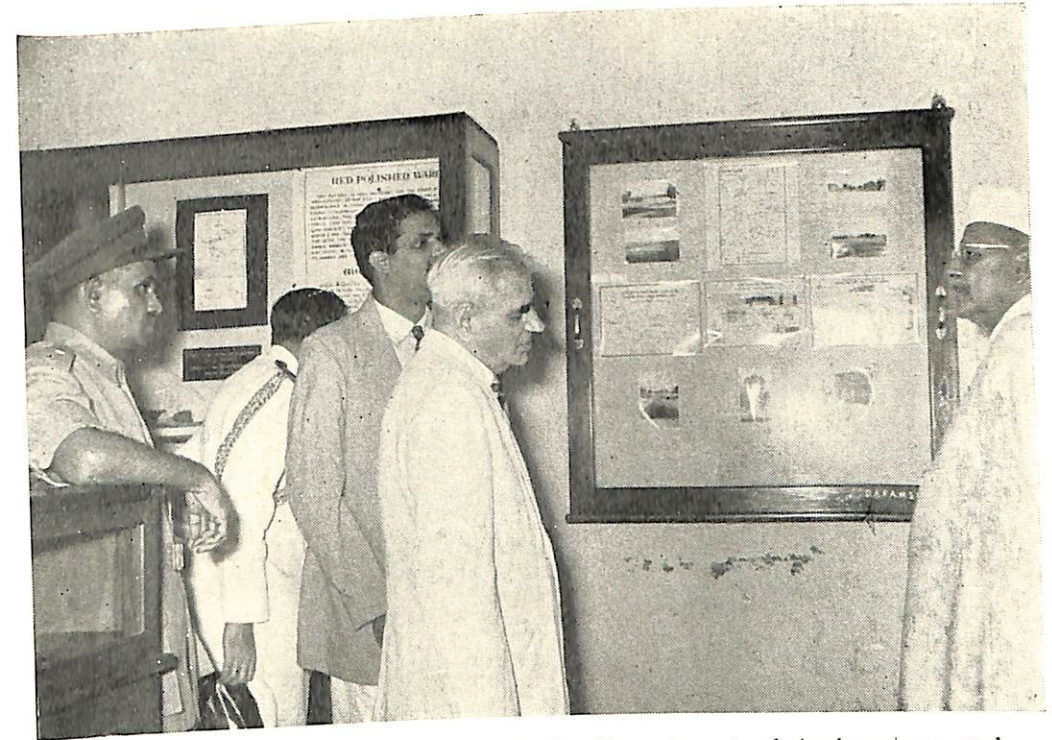
Sr. No.	Item	Cost of equipment on 1-7-1959 Rs.	Cost of equipment written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment as on 31-3-1960 Rs.
1.	Museum	3,209=87	—	1,324=11	4,533=98
2.	Studio	13,809=96	—	—	13,809=96
3.	Excavation Equipment	1,184=35	—	—	1,184=35
4.	Drawing Equipment	1,806=75	—	—	1,806=75
5.	Dead Stock	5,878=46	—	22,975=97	28,854=43
6.	U.G.C. (NR) Equipment	2,585=00	—	49,638=23	52,223=23
		28,474=39		73,938=31	1,02,412=70

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

The following were the publications by the members of the staff of the Faculty during the year 1959-60 :

(1) *Articals or Papers :*

Name	Title	Name of the Journal wherein published with Month of Publication
1. Dr. Y. J. Tripathi	સત શ્રી જીવનદાસ અને એમની અપ્રસિદ્ધ કૃતિઓ	Paper read at the Gujarati Sahitya Parishad October, 1959
2. Shri S. H. Joshi	(a) કાવ્યનો આસ્વાદ	Paper read at the Gujarati Sahitya Parishad, October, 1959
	(b) Trends in Modern Gujarati Literature	Paper read at the All India Writers' Conference Madras December, 1959
	(c) A Writer affirms	The All India Writers' Conference Souvenir, December, 1959.



Governor Shri Sri Prakash visiting the Department of Archaeology and Ancient History



Name	Title	Name of the Journal wherein published with month of publication
3 Shri N. C. Desai	उर्मिजन्य भावाभार	Paper read at Gujarati Sahitya Parishad, October, 1959
4 Shri C. N. Bhalerao	Public Service Commission of India and Cauada	Journal of M. S. University of Baroda, 1960
5 Shri P. J. Shah	Political Ideas of Harold Lasswell	Indian Journal of Political Science, July, 1959
6 Dr. A. G. Javdekar	(a) ज्ञानका नीतिशास्त्र	दार्शनिक January, 1960
	(b) ज्ञानाचे नीतिशास्त्र	प्रसाद March, 1960
	(c) Axionoetics or Valuational Theory of knowledge. Synopsis of the above two articles have appeared in English	Journal of M. S. University, March, 1960
	(d) Ethics of Knowledge	Cultural India, January and February, 1960
	(e) Axionoetics and Morals	
	(f) Freedom and Morals	Journal of Philosophical Association, July-October, 1959
7 Professor V. Y. Katak	Why do we enjoy Tragedy?	Literary Criterion for Winter, 1959
8 Shri M. G. Krishnamurthy	Shelley, Dr. Levis and Miss Stock	Literary Criterion for Winter, 1959
9 Dr. I. P. Desai	The New Elite	Economic Weekly, Special Number, 1959
10 Shri A. M. Shah	Social Anthropology and the study of Historical Societies	Economic Weekly, Special Number, July, 1959
11 Shri T. N. Sheth	A Note on the Unity of India	Sociological Bulletin of March, 1960
12 Shri N. R. Sheth	(a) Maya Enters Machine Age	Economic Weekly, Eleventh Annual Number, January, 1960
	(b) An Indian Factory-Aspects of its Social Framework	Journal of the M. S. University of Baroda, March, 1960
13 Dr. S. S. Bhave	Soma Hymns of the Rgveda. Part II (9, 16-50)	M.S. University Research Series, January, 1959



Name	Title	Name of the Journal wherein published with month of publication
14 Dr. I. S. Gulati with Dr. I. P. Desai and Shri R. F. Kothari	(a) Proposal for Prize Bonds (b) Our Universities: The Problem	Economic Weekly of December, 1959 Seminar March, 1960
15 Shri R. F. Kothari	(a) From Service to Farming Cooperatives, in a Symposium on Cooperative Farming (b) 'Kerala': A Post mortem (c) Direct Action: A Pattern of Political Behaviour (d) Jayprakash Narain's Thesis (e) Non-Economic Pre-conditions in a Symposium on Pre-conditions of Sustained Economic Growth of the Indian Economy	Economic Weekly, Special Number of July, 1959 Economic Weekly of November, 1959 Quest, January, 1960 Economic Weekly Economic Weekly, Special Number
16 Shri H. P. Chokshi	(a) Some Problems of State Partnership in Cooperation (b) Taxation and Optimum Land Utilisation in India	A. I. C. C. Economic Review of October, 1959 Indian Journal of Agricultural Economics (Conference Number) of January-March, 1960
17. Dr. R. N. Mehta	(a) Place names in the Grant of Dadda III dated year 427 (b) नर्मदानी खीणोनी संस्कृति	Journal of the Oriental Institute, Vol. II, No. 2 'Sanskriti'
18 Shri S. C. Malik	Recent Explorations in Hoshangabad	Journal of the M. S. University of Baroda, Vol. VIII, No. 1, March, 1959.
19 Shri S. N. Chowdhary	A Torana at Shamalaji	Journal of the M. S. University of Baroda, Vol. VIII, No. 1, March, 1959
20 Shri Y. A. Rajkar	A Study in the Islamic Invasions of India	Journal of the M. S. University of Baroda, Vol. VIII, No. 1, March, 1959
21 Professor C. P. Singh	भारतेन्दु का नाट्यधर्म	'नवजीवन' का भारतेन्दु अंक, सितम्बर, १९५९

Name	Title	Name of the Journal wherein published with month of publication
22 Shri B. L. Sinha	पद्माकर की काव्यकला	'रसवंती', फरवरी, १९६०
23 Shri M. G. Gupta	(a) सांस्कृतिक समन्वय का प्रतीक मोगलकालीन चित्रकला (b) राजस्थान का सांस्कृतिक साक्ष्य: दोलामारु दृष्टा	'आचार', अगस्त १९५९ 'आचार', नवम्बर १९५९
(2) Books :		
1 Dr. Y. J. Tripathi	दीवाने सागर दफ्तर बीजु— edited with critical notes	Author October, 1959
2 Shri S. H. Joshi	गोकीनी श्रेष्ठ वार्ताओ (Translation in collaboration with Swapnastha)	Chetan Prakashan Grih, October, 1959
3 Late Professor B. K. Thakore editors : Professor B. J. Sandesara	प्रवेश की गुच्छ—१ A Harvest of Prose	Gujarati Department, M. S. University of Baroda, July, 1959 Macmillan & Co.
4 Edited by Shri V. D. Salgaonkar and Shri D. D. Mahulkar		
5 Professor C. P. Singh	(a) शिवकविकृत दौलत बागविलास (b) पदाङ्कुरत (संस्कृत काव्य) (c) प्रतिपदा (काव्यसंग्रह) (d) कविवर नरोत्तमदास (नाटक)	बसन्त एण्ड कम्पनी, मार्च, १९६० पुष्पराज प्रेस, मथुरा, जनवरी, १९६० बसन्त एण्ड कम्पनी, मार्च, १९६० गुर्जर भारती प्रकाशन बड़ोदा, अगस्त, १९५९
6 Dr. R. N. Mehta jointly with Professor B. J. Sandesara	वर्णक समुच्चय भाग—२	Gujarati Department, M. S. University of Baroda, July, 1959
7 Dr. R. N. Mehta	तरवानी कथा	Oriental Institute, August, 1959
8 Shri S. C. Malik	'Stone Age Industries of the Bombay and Satara Districts'	Department of Archaeology, M. S. University of Baroda, May, 1959

#### 9. 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 the Faculty, in the city and outside Baroda. Many members of the staff were deputed to attend the Annual Conference 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-Faculty Cultural Competition during the University Week Celebrations. The Faculty won the first prize in Group Dance, second prize in Drama, second prize in Garba and third prize in Group Song Competition during the 10th University Week Celebrations. Prizes were also awarded to the students for the best performance in Drama and in the Fancy Dress Competition during the Republic Day Celebrations.

In the field of elocution the students of this Faculty participated with earnest zeal in different debates and the following four trophies were won for the Faculty :

1. Shri N. B. Bhatt Trophy ( Extempore Debate )
2. Pro-Vice-Chancellor Trophy
3. Shri B. N. Majmudar Trophy
4. Shri S. N. Bhatt Trophy

Individual prizes were also won by the students and two students represented the Faculty at the Mahadevbhai Desai Trophy Elocution Competition held at Ahmedabad. The Faculty won prizes during the Inter-Faculty tournaments. In Table-Tennis and Badminton the 'girls' Team got the championship. One girl student of the Faculty won the individual championship for girls in athletics. The Cricket team has again won the championship cup for Inter-Faculty Cricket Tournament.

#### 10 Co-curricular Activities

( 1 ) Tours : The students of the B.A. Classes of the Archaeology Department went on a study tour to Sanchi, Ajanta, Ellora, Elephanta and other sites. The students of the History Department visited Sardar Vallabhbhai Vidyapeeth. The Economics Department took the B.Sc. students ( Economics Subsidiary ) on a study tour to Saraswani Village of Padra Taluka. The members of the Philosophical Society went on a short excursion to Chandod and Karnali. The Sanskrit Literary Society arranged a trip to Ajwa in February, 1960.

One of the special features of the year was a cultural and educational tour organised by the Faculty Association during the Christmas Week. A party of 25 students of the Faculty accompanied by the teacher-in-charge of the F. S. R. C. visited the various places like Prabhas-Patan, Junagadh, Dwarka, Balaram, Abu-Ambaji, Patan etc. the cultural centres of Saurashtra and Gujarat.

( 2 ) Socials : The Faculty celebrated its Annual Day with the Vice-Chancellor Dr. J. M. Mehta and Shrimati Saralaben Mehta as the Chief Guests. The Vice-Chancellor spoke about his association with the Faculty and expressed his satisfaction at the progress that was being made by it in academic and other spheres. The celebration ended with an Annual Dinner which was attended by the Chief Guests, the Pro-Vice-Chancellor and the members of the staff.

( 3 ) Debates : Dr. A. G. Javdekar acted as the Convener of the Speakers' Club. A symposium on 'FRUSTRATION' was arranged in September, 1959 under the Chairmanship of Dr. J. M. Mehta, Vice-Chancellor of the M. S. University of Baroda, in which members of the staff from various Faculties participated. The symposium is published by the University in the Symposium series.

About six members of the English Department participated in the Seminar on English Literature conducted under joint auspices of The British Council and the M. S. University of Baroda during January, 1960.

( 4 ) Exhibition : Professor B. Subbarao took part in the Exhibition on Archaeology at Bhuvaneshwar ( Orissa ).

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

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

Each of these Societies carried out its own programme of symposia and seminars where papers were read by the students and the discussion were held where both the students and the teachers participated.



The Shakespeare Society presented two plays: 'The Admirable Crichton' and 'Glass Menagerie' in February, 1960. 'The Glass Menagerie' was also presented as part of the entertainment programme during the session of Indian Association for English Studies.

(6) Celebrations: Important National days were observed and the anniversaries of men of letters in Hindi literature were also celebrated by arranging lectures befitting the occasions.

#### 11. Tests and Class-work

Beginning from the examinations for 1959, the marks for periodical tests and class-work have been raised from 20% to 30% and the Faculty of Arts had appointed a committee to reconsider the working of the tutorial system in the light of this raise 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 students' work being examined by the respective teachers, and not tutors. The students' work is to be evaluated in two mid-term and one terminal tests during the year. The Faculty has left it to the different departments to organise a *viva voce* during the year whenever necessary. This system has been in force this year.

#### 12. Other Important Events

(1) Many distinguished visitors came to the Faculty during the year, gave lectures and held discussions with teachers and students.

(a) Dr. F. G. Bailey of the School of the Oriental and African Studies, University of London and Professor T. B. Bottomore of the London School of Economics had sessions with the teachers and the students of the Sociology Department.

(b) Professor Robson of London School of Economics and Dr. Efimenco of U. S. I. S. visited the Department of Political Science and gave lectures while Consul General of Yugoslavia and the Consul General of Czechoslovakia gave talks in the Department.

(c) Professor Earnest Dale, Associate Professor of Economics and Business Administration, Graduate School of Business, Cornell University met the members of the Economics Department on

the 2nd January, 1960 to discuss possibilities of co-ordination in research between the Department and local industrial and business concerns.

(d) Professor A. K. Dasgupta, Deputy Director General of National Council of Applied Economics Research addressed the Post-graduate Economics Seminar on the 16th January, 1960 on the subject of "Investment, Employment Development Planning".

(e) Dr. A. L. Basham, Professor of History, University of London, visited the History Department in October, 1959.

(2) The Department of Archaeology and Ancient History, which expanded on account of the help received from the University Grants Commission carried out excavations at Devnimori near Shamalaji. A large stupa 86' x 86' x 34' was excavated and a number of terracotta Buddha figures were discovered. Dr. Jivraj N. Mehta, Chief Minister of the Gujarat State and Professor Humayun Kabir, Union Minister for Scientific Research and Cultural Affairs, Government of India, visited these excavations.

(3) Dr. S. G. Kantawala, Lecturer in Sanskrit Department was awarded the Ph. D. degree by the M. S. University of Baroda for his thesis on "Cultural History from the Matsyapurana".



## CHAPTER IX—FACULTY OF SCIENCE

### 1. Brief History

The Faculty of Science formed the Science side of the old 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 organised the Science side of the Baroda College into the Faculty of Science into its present form by 1950. The departments of Physics and Chemistry were strengthened and those of Botany and Zoology were started. The department of Mathematics and the newly created departments of Statistics and Geography were transferred from the Arts side to the Science side. The department of Geology was started in 1952 and is now located in the Faculty of Technology and Engineering. The department of Bio-chemistry was added in June, 1955. The Faculty of Science now consists of the departments of Bio-chemistry, Botany, Chemistry, Geography, Geology, 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 in the Square Block building near it. There is a separate building for the Central Workshop of the Faculty. There are also small buildings for a Vivarium for the Zoology Department and for a Gas Plant.

During the current year, special rooms have been built near the old Gas Plant for storing acids and petrol, at a cost of Rs. 8,950/-.

Grants of the order of Rs. 4.5 lakhs have been received from the U. G. C. and the State Government for the construction of an additional building for the Faculty. The building, which was started in 1958, is now nearing completion.

### 3. Courses of Studies

There is provision for the following Courses :

- ( 1 ) B.Sc., M.Sc. and Ph.D.      Botany, Chemistry, Geography,  
Mathematics, Physics, Statistics and  
Zoology



Professor Humayun Kabir, Dr. K. R. Ramnathan and Dr. J. M. Mehta at the Symposium on Geophysical Exploration



- |                       |   |
|-----------------------|---|
| ( 2 ) M.Sc. and Ph.D. | Bio-chemistry                               |
| ( 3 ) B.Sc.           | Geology                                     |
| ( 4 ) Pre-Medical     | One year's Course after Preparatory Science |

#### 4. Number of Students

The number of students on roll in the various classes at the beginning of the year 1959-60 was as under :

<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Pre-Medical	48	11	59
B.Sc. I	147	22	169
B.Sc. II	148	16	164
B.Sc. III	99	11	110
Jr. M.Sc.	61	7	68
Sr. M.Sc.	48	7	55
Ph.D.	30	2	32
	<hr/> 581	<hr/> 76	<hr/> 657

#### 5. Staff

During the year, the teaching and other staff of the Faculty consisted of 7 Professors, 9 Readers, 35 Lecturers, 42 Demonstrators and Tutors, 44 Clerks, and Technicians and 38 Class IV servants. Dr. D. M. Munshi and Dr. S. P. Pandya delivered courses of lectures on Theoretical Physics as visiting lecturers. The teachers of the Faculty also carried out teaching assignments in the Faculties and Institutions where Science subjects are included in their various Courses.

#### 6. Library

There is no independent library or reading room in the Science Faculty. The University Library Shrimati Hansa Mehta Library situated next to the Science Faculty was extensively used by the students and teachers of the Faculty. The amount spent during 1959-60 for science books and periodicals was Rs. 9,960 from the Science Faculty budget of the University and Rs. 8,429 from the University Grants Commission's grant for scientific and technological books. In addition, Rs. 470 were spent on binding, and some books and periodicals were purchased from the University Library budget.



## 7. Museums, Laboratories and Workshop

The Museums of Botany, Geography and Zoology departments were enriched by addition of specimens and other articles.

In the Central Workshop, various machines were added and useful work of preparation of research apparatus, repairing of instruments and apparatus, Glass Blowing and other work was executed.

With the help of the grants from the University Grants Commission and the Government of Bombay, substantial additions of scientific apparatus and equipment were made during the year to the laboratories and the Workshop of the Faculty. The following table gives the cost of equipment in the different laboratories during the year 1959-60 :

Laboratory	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1960
	Rs.	Rs.	Rs.	Rs.
Bio-chemistry	96,640	—	22,752	1,19,392
Botany	1,89,166	—	28,874	2,18,040
Chemistry	2,03,159	—	45,637	2,48,796
Geography	88,809	—	32,284	1,21,093
Physics (including Workshop)	2,92,621	—	43,925	3,36,546
Statistics	63,108	—	17,530	80,638
Zoology	1,36,013	—	22,528	1,58,541
	10,69,516		*2,13,530	12,83,046

## 8. Publication of the Members of the Staff and Students

Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
<i>Research Papers :</i>			
1	Sarvashri B. P. Gothoskar, P. N. Raina and Dr. C. V. Ramkrishnan	Glutamine Synthetase in adult hen heart tissue	Biochemica et Biophysica acta : January, 1960

\* This includes an amount of Rs. 1,73,210/- spent out of the grants from the University Grants Commission and the State Government.

Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
2	Sarvashri B. P. Gothoskar, P. N. Raina, S. S. Tate and Dr. C. V. Ramkrishnan	Glutamine Metabolism of Chick heart tissue rat heart tissue....in synthetic media	Journal of National Cancer Institute, March, 1960
3	Sarvashri M. G. Karmarkar, H. R. Chokshi & Dr. C. V. Ramkrishnan	Relation between dietary protein and various nitrogenous constituents of human milk	Journal of Pediatrics, Vol. 55 ; 481, 1959
4	Shri M. G. Karmarkar, and Dr. C. V. Ramkrishnan	Relation between dietary fat content of milk and concentration of certain enzymes in human milk	Journal of Nutrition, Vol. 69 ; p. 275, November, 1959
5	Shri W. M. Deshpande and Dr. C. V. Ramkrishnan	( i ) Condensing enzyme in the fruits of Garcenic ( ii ) Condensing Enzyme in Garcenic leaves	Annals of Bio-chemistry and Exp. Medicine, Vol. XIX, No. 5, III, 1959 Journal of Biochem., Vol. 234, No. 8, August, 1959
6	Shri A. P. Joshi and Dr. C. V. Ramkrishnan	Mechanism of Formation and Accumulation of Citric Acid in A. Niger Part I	Enzymologia, Vol. XXI, p. 49, 1959
7	Dr. C. V. Ramkrishnan, Sarvashri P. N. Raina, N. T. Patel and A. P. Joshi	Mechanism of formation and accumulation of citric acid in A. Niger Part II	Enzymologia, Vol. XXI, p. 52, 1959
8	Shri S. S. Tate, Dr. C. V. Ramkrishnan and Shri N. T. Patel	Acetyl CoA deacylase in lime fruit	Journal of Bio-chemistry ( Japan ), Vol. 47, p. 495, 1960
9	Dr. V. V. Modi and Kumari D. K. Patwa	Biosynthesis of carotenes in carrot extracts	Nature, Vol. 184, p. 983, September, 1959
10	Dr. A. R. Chavan and Shri S. D. Sabnis	( i ) New record of <i>Marriscus panicus</i> Vahl. and <i>Cyperus leucocephalus</i> Retz. from Gujarat	Jour. B.N.H.S., Vol. 56 ( II ) August, 1959



Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
		( ii ) Cyperaceae of Gujarat II. Observations on the Cyperaceae of some places in North, Central and South Gujarat	Jorn. M.S.U., Vol. No. 2, October, 1959
		( iii ) Nodal swellings of stem of <i>Eclipta prostrata</i> Linn.	Sci. Cult. Vol., 25, No. 7, January, 1960
		( iv ) Teratological notes on <i>Coccinia indica</i> Wt. & Arn.	Sci. & Cult. Vol. 25, No. 7, January, 1960
		( v ) Cyperaceae from Mount Abu	Jour. Ind. Bot. Soc., Vol. 39, No. 1, 1960
		( vi ) Record of <i>Cryptostagia</i> madagascariensis Boj. from Baroda	Journ. Bom. Nat. His. Soc. December, 1959
11	Dr. A. R. Chavan and Shri R. P. Bhatt	( i ) Nature of vascularization of tendril and leaf in <i>Coccinia indica</i> Wt. & Arn.	Jour. M. S. U. Vol. 8 No. 2, October, 1959
		( ii ) On <i>Cuscuta chinensis</i> Lamk. preliminary observations on Parasitism	Sci. & Cult. Vol. 25, No. 9, March, 1960
12	Dr. A. R. Chavan and Shri Y. S. Deshmukh	The occurrence of extra floral nectaries in the genus <i>Gmelina</i>	Sci. & Cult. Vol. 25, August, 1959
13	Dr. A. R. Chavan and Shri A. R. Mehta	( i ) Grasses of Pavagadh	Jour. Ind. Bot. Soc. No. 2, Vol. 38, 1959
		( ii ) Records of <i>Heteropogon melinocarpus</i> Benth from Gujarat	Sci. & Cult. Vol. 25, No. 7, January, 1960
		( iii ) New Grass Records from Gujarat-I	Jour. M. S. U. Vol. VIII, No. 2, October, 1959
		( iv ) Studies on the Grasses of Gujarat, III-Genus <i>Ischaemum</i> Linn. in Gujarat	Jour. M. S. U. Vol. VIII, No. 2, October, 1959

Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
14	Dr. V. G. Phatak and Shri G. M. Oza	( i ) Occurrence of <i>Curcuma inodora</i> Blatt. at Pavagadh (Gujarat)	Jour. Bom. Nat. His. Soc. August, 1959
		( ii ) Notes on the Flowering of <i>Carvia Calloso</i> ( Nees ) Bramek	Jour. Bom. Nat. His. Soc. December, 1959
		( iii ) 4. winged Fruit of <i>Terminalia crenulata</i> Roth	Current Science 29 ( 1 ) : 25, 1950
15	Dr. A. R. Chavan, Shri S. D. Sabnis and Dr. C. H. Pathak	Studies in genus <i>Cryptostegia</i>	Current Science, Vol. 29, No. 1, January, 1960
16	Shri N. H. Shah and Dr. Suresh Sethna	Studies in Hydroxyanthracene Series Part II, Some heterocyclic compounds from 2-anthrol	Jour. Org. Chem. ( 1959 ), 24, 1783
17	Kumari Sindhu Par-khi and Dr. Suresh Sethna	Substitution in 5-n-pentadecylresorcinol	Jour. Indian Chem. Soc. ( 1960 ), 37, 159
18	Shri M. G. Patel and Dr. Suresh Sethna	Studies on 6: 7-dihydroxy 4-methylcoumarin and its methyl ethers	Jour. Indian Chem. Soc. ( 1960 ), 37, 228
19	Dr. C. M. Mehta and Shri C. H. Patel	( i ) Synthesis of 2: 4-dihydroxy quino-line derivatives by cyclization of malon monoaryl acids and malon monoaryl amides	Jour. Sci. and Ind. Res. ( 1959 ), 18B, 391
		( ii ) Formation of methylene bis-derivatives from acetoacetanilides by means of sodium hydroxymethane sulphate	Cur. Sci. ( 1960 ), 29, 95
		( iii ) Synthesis of quino-line derivatives on cyclisation of methylene bis-acetoacetanilides	Cur. Sci. ( 1960 ), 29, 95



Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
20	Dr. J. S. Dave and Dr. A. M. Talati	( i ) Estimation of Nickel and Palladium by L-B dioximino acetoaceto-toluidide ( ii ) Estimation of Palladium by L-B dioximino acetoaceto-o-chloranilide ( iii ) Estimation of Copper by L-B dioximino acetoacetanilide ( iv ) Absorption spectra of oximes from acetoacetamide ( v ) Estimation of copper and Nickel by L-B dioximino acetoacet-o-chloranilide ( vi ) Metal chelates of some new dioximes ( vii ) Estimation of copper by dioximes	Jour. Indian Chem. Soc. ( 1959 ), 36, 735 Jour. Indian Chem. Soc. ( 1959 ), 36, 838 Jour. Indian Chem. Soc. ( 1959 ), 36, 830 J. C. S. ( 1960 ), 900 Jour. Indian Chem. Soc. ( 1960 ), 37, 40 Proceedings of symposium on Chemistry of co-ordinate compounds Agra, Part I, 1960 Proceeding of symposium on Chemistry of co-ordinate compounds, Agra, Part II, 1960
21	Dr. J. S. Dave and Shri J. M. Lohar	Liquid crystallinity in Schiff's Bases	Proc. Nat. Acad. of Sciences, India, 29A, Part I ( 1960 ), 35
22	Dr. S. L. Bafna	Decomposition of Azobisisobutyronitrile	J. Sci. and Industr. Res. ( 1960 ), 19B, 173
23	Shri K. N. Trivedi	( i ) Anion Exchange Resins as catalyst in Knoevenagel condensation. Synthesis of 3-substituted coumarins ( ii ) Anion Exchange Resins as catalyst in the synthesis of pyridine derivatives ( iii ) Anion Exchange Resins as catalyst in Michael reaction	J. Sci. and Industr. Res. ( 1959 ), 18B, 308 Cur. Sci. ( 1959 ), 28, 322 J. Sci. and Industr. Res. ( 1959 ), 18B, 397

Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
24	Shrimati V. A. Janaki	Historical Geography of Settlements in Kerala	Journal of M. S. University of Baroda, 1959
25	Shai K. R. Dixit	Some Problems of Land Use in the Plans of Greater Bombay	Bombay Geographical Magazine Land Use Number, 1959
26	Dr. D. V. Gogate and Shri H. S. Desai	( i ) Heat Transfer by Forced Convection ( ii ) Heat Transfer and Reynolds Number	Proc. Phy. Soc. (London), Vol. LXXIV, pp. 770-773, 1959 Journal of Scientific and Industrial Research, Vol. 18B, p. 531, 1959
27	Dr. N. S. Pandya and Shri J. R. Pandya	Etching of Calcite	Nature ( London ) Vol. 14A, p. 894-95, 1959
28	Shri C. G. Khatri	( i ) Mutual Independence of certain Statistics ( ii ) On Certain Properties of Power-Series Distributions ( iii ) On Testing the Equality of Parameters in K-rectangular Populations	Annals of Mathematical Statistics ( U. S. A. ), Vol. 30, 1959, pp. 1258-1262 Biometrika, Vol. 46, 1959, pp. 486-490 Journal of American Statistical Association, Vol. 55, pp. 144-147
29	Sarvashri C. G. Khatri and B. K. Shah	On the Method of Fitting Certain Curves on Force of Mortality at All Ages	Journal of M. S. University of Baroda, Vol. 8, 1959, pp. 33-40
30	Shrimati I. V. Bhanot	Wastage and Stagnation in M. S. University of Baroda	Journal of M. S. University of Baroda, Vol. 9 No. 1, March 1960, pp. 77-93
31	Shri T. P. Lale and Shrimati I. V. Bhanot	A Brief Statistical Note	Journal of M. S. University of Baroda, Vol. 9, No. 1, March, 1960, pp. 103-121
32	Dr. J. C. George and Shri J. Eapen	( i ) Histochemical demonstration of lipase alkaline phosphatase activity in the fat body of the desert locust	Nature, London, 183, 268, 1959



Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
		(ii) Further histochemical observations on the adipose tissue of the pigeon	J. Anim. Morph. Physiol. India, 6. 1. 1959
		(iii) Lipase activity in the Brown and Yellow adipose Tissue of the Bat	Nature, London, 184. 59. 1959
		(iv) Lipase activity in the adipose tissue of vertebrates	J. Anim. Morph. Physiol. India, 6, 2. 1958
		(v) A Histological and Histochemical study of the brown and yellow adipose tissue of the bat, <i>Hipposideros speoris</i>	Quart. J. Micr. Sci. Oxford 100. 1959 369
		(vi) Lipase activity in the fat body of the desert locust, <i>Schistocerca gregaria</i>	J. Cell. Comp. Physiol. U. S. A. 54. 3. 1959, 293-295
		(vii) In the Vitro Oxygen consumption by the brown and yellow adipose tissue of the bat	Naturewissen-schaften, Germany 47 (ii)-25 1960
33	Dr. J. C. George and Shri R. M. Naik	(i) Studies on the Structure and physiology of the flight muscles of birds 4 The fibre architecture of the pectoralis major muscle of the pigeon	Biol. Bulletin, U. S. A. 116. 1. 1959
		(ii) Studies on the structure and physiology of the flight muscles of birds 5 Some histological and cytochemical observations of the structure of the pectoralis	

Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
		(iii) Studies on the structure and physiology of the flight muscles of birds 6 Variation in the diameter of the muscle fibres in the <i>pectoralis major</i> and its relation to muscle size and mode of flight	J. Anim. Morph. Physiol. India 6-2-1959
		(iv) Studies on the structure and physiology of the flight muscles of birds 7 Structure of the <i>pectoralis major</i> muscle of the pigeon in disuse atrophy	J. Anim. Morph. Physiol. India 6-2-1959
		(v) Intramuscular fat store in Birds	Auk. U. S. A. 77. 2. 1960 216-217
		(vi) Some observation on the distribution on blood capillaries in the pigeon breast muscle	Auk. U. S. A. 77. 2. 1960 224-225
34	Dr. J. C. George and Dr. R. V. Shah	The structural basis of the evolution of the respiratory mechanism in chelonia. J.	J. Anim. Morph. Physiol. India. 6. 1. 1959
35	Dr. J. C. George and Shri K. S. Scaria	(i) The pigeon breast muscle lipase (ii) Activation of the pigeon pancreatic lipase by mercuric chloride	J. Anim. Morph. Physiol. India. 6. 1. 1959 Current Science, India, 28, 3, 1959
36	Dr. J. C. George and Shri S. D. Pishwikar	Studies on the structure and physiology of the flight muscles of birds	



Sr. No.	Name	Title	Name of the Journal wherein published with volume and date
		8 Adenosine Triphosphatase activity and —SH groups in the <i>pectoralis major</i> muscles of the pigeon	J. Anim. Morph. Physiol. India. 6. 2. 1959
37	Dr. J. C. George and Shri Iype P. Thomes	( i ) Improved Histochemical Demonstration of lipase activity ( ii ) A study of the lipase activity in the developing chick heart	Stain. Tech. U. S. A. 35. 3. 1960 151 J. Exp. Zool. U. S. A. 141. 2. 1959 291
38	Dr. J. C. George and Shri N. M. G. Bhaktan	A study on the fibre diameter and certain enzyme concentrations in the flight muscles of some butterflies	J. Exp. Biol. Cambridge, 37. 2. 1960 308-315
39	Dr. J. C. George and Shri C. L. Talesara	Studies on the structure and physiology of the flight muscles of birds 9 A quantitative study of the distribution pattern of succinic dehydrogenase in the <i>pectoralis major</i> muscle of the pigeon	Biol. Bull. U. S. A. 118. 2. 1960 262-263
40	Dr. P. V. Shah	A modified vital staining technique for amphibian eggs	Experientia, Switzerland, 16. 4. 1960, 165

## 9. Literary, Cultural and Other Activities

### ( a ) Activities by Teachers :

( i ) Professor C. V. Ramkrishnan at the invitation of the University Grants Commission prepared a Review on the Development of Bio-chemistry in India ; ( ii ) Shri V. K. Shah was deputed to several institutions for training in Sanitation Bio-chemistry from 22-6-1959 to 23-7-1959 ; ( iii ) Dr. C. H. Pathak was deputed to French Institute, Pondicherry for training in Vegetative Cartography under Professor P. Legris from 24-10-1959 ; ( iv ) Shrimati V. A. Janaki was invited to write articles for the Encyclo-

pædia Britannica on Towns and Districts of Gujarat, Madhya Pradesh and Marashtra ; ( v ) Shri J. R. Pandya attended a specialized course on High Vacuum Technique organized by UNESCO at Delhi from 18-1-1960 to 8-2-1960 ; ( vi ) Shri S. C. Jaiswal was deputed for training in Mechanical Tabulation to International Tabulators and Computers at Bombay from 1-2-1960 to 31-3-1960 ; ( vii ) Dr. R. M. Naik was deputed to Bombay to work with Dr. Salim Ali of Bombay Natural History Society and learned field methods to study birds ; ( viii ) Professor J. C. George edited and published issues No.s 1 and 2, Vol. VI of Journal of Animal Morphology and Physiology, India ; ( ix ) Several teachers gave talks on All India Radio, Baroda ; ( x ) Teachers and research students of the Faculty were deputed to various conferences where they read papers and took part in the proceedings. The following papers were read at these conferences by the teachers of the Faculty :

S.No.	Name	Title	Conference
1	Professor D. V. Gogate	Velocity of second sound in liquid He II	Summer School of Theoretical Physics at Mussoorie, 1959
2	Dr. J. S. Dave and Shri J. M. Lohar	Liquid Crystallinity in Schiff's Bases	Annual Session of National Academy of Sciences at Gorakhpur, 1960
3	Dr. S. L. Bafna	Napthalene Polymers	Symposium on High Polymers at Calcutta, 1960
4	Shri K. R. Dixit	Concept of Functional Zones	Indian Science Congress at Bombay, 1960
5	Dr. C. H. Pathak and Shri S. D. Sabnis	Studies in the genus <i>Cryptostegia</i> -Variation in coronal Character	Indian Science Congress at Bombay, 1960
6	Professor S. M. Sethna and Shri S. S. Lele	( i ) Chloromethylation of Coumarins ( ii ) Ulmann Reaction on some iodo-comarins	Indian Science Congress at Bombay, 1960
7	Dr. J. S. Dave and Shri J. M. Lohar	Formation of mixed liquid crystals in mixtures of non-liquid crystalline substances	
8	Dr. J. S. Dave and Shri A. R. Patel	Ionic Radii	Indian Science Congress at Bombay, 1960
9	Professor S. M. Sethna and Shri M. V. Shah	Kostanecki Robinson Acylation of some iodo-derivatives of -O-hydroxyacetophenones	Indian Science Congress at Bombay, 1960



S. No.	Name	Title	Conference
10	Dr. C. M. Mehta and Shri G. H. Patel	(i) Partial hydrolysis of cynaacetamides (ii) Synthesis of 2:4 dihydroxy quinolines	Indian Science Congress at Bombay, 1960
11	Professor S. M. Sethna and Shri M. G. Patel	Studies on 6:7 Dihydroxy-4-methyl Coumarins and its methyl ethers	Indian Science Congress at Bombay, 1960
12	Shri C. G. Khatri and Shri B. K. Shah	On Force of Mortality at All Ages	Indian Science Congress at Bombay, 1960
13	Shri C. G. Khatri	A theorem on the rank of a matrix useful in Statistics	Indian Science Congress at Bombay, 1960
14	Professor D. V. Gogate, Sarvashri R. D. Rao and P. K. Koranne	Free Convectional Heat Transfer from a Horizontal Wire	Indian Science Congress at Bombay, 1960
15	Professor D. V. Gogate and Shri H. S. Desai	Convectional Heat Exchange and Reynolds Number	Indian Science Congress at Bombay, 1960
16	Dr. N. S. Pandya and Shri J. R. Pandya	Etching of Calcite	Indian Science Congress at Bombay, 1960
17	Dr. N. S. Pandya and Shri C. J. Shah	Hardness along Tricrystal boundaries in tin	Indian Science Congress at Bombay, 1960

(b) *Extra-Curricular Activities by Students and Teachers:*

Students of the Faculty participated in various activities of the University like sports, University Week Competitions, Youth Festival, N. C. C. etc. They secured the first prize in Drama and the first prize in Group Song. Shri Rajeshirke of the Faculty won several prizes and the athletic Championship of the University in the University-Week Competitions. The Students Association of the Faculty carried on the activities of sports, lectures, etc. during the year and celebrated the Faculty Day on the 3rd February, 1960 under the presidentship of the Vice-Chancellor Dr. J. M. Mehta. The teachers of the Faculty took keen interest in sports and other activities of the University and several of them were in charge of sports or officers in the N. C. C.

#### 10. Co-Curricular Activities

(a) Societies: The Societies of the Faculty formed according to the subjects of studies in the Faculty, arranged a number of lectures, dis-

cussions, 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 T. S. Mahabale, Head, Department of Botany, Poona University	Recent Experiences of my tour Abroad
2.	Dr. T. C. N. Singh, Head, Department of Botany, Annamalai University	Effect of Music on Plants
3.	Dr. D. M. Gopinath, Central Tobacco Research Institute, Rajahmundry	Cytogenetics
4.	Dr. S. P. Pandya, Physical Research Laboratories, Ahmedabad	Structure of the Nucleus
5.	Dr. G. S. Saharia, Delhi University, Delhi	Chemistry of 7-membered Ring System
6.	Professor N. N. Godbole, Formerly of Banaras Hindu University, Banaras	Some Aspects of Fertilizer Industry in India
7.	Dr. R. D. Desai, Principal, M. G. Science Institute, Ahmedabad	Bayer's Strain Theory and Subsequent Developments
8.	Professor L. D. Dave, Sardar Vallabhbhai Vidyapeeth, Vallabh Vidyanagar	Structure of Molecules
9.	Shri M. G. Bhade, Statistician, Indian Statistical Institute, Calcutta	Quality Control in Engineering

(b) Study Tours: Senior students of Botany, Geography, Geology and Zoology accompanied by teachers went on several study tours for the purpose of field studies and collection of materials for their museums. Students of Chemistry and Statistics also went on tours.

(c) Film Shows: Film shows were arranged to supplement Classroom teaching and promote general knowledge. A large number of films on scientific and technical subjects were shown by the departments of Botany, Chemistry, Biochemistry and Geography.



## 11. Tests 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, assigned to these periodical tests was 30% for B. Sc. First, Second and Third Year and Pre-Medical Classes. For each subject, at least one test per paper per term and a terminal test with twice the weightage of one test, were held both in theory and practicals. Short-answer questions are being introduced. Assessment of the answers was done by the teachers teaching the subject. Regular records of marks in the tests were maintained and sent to the University. In the three year integrated courses, as the number of students in the classes are small, teachers have been using discussion and seminar methods of instruction.

## 12. Other Important Events

### (a) Symposium on Geophysical Exploration:

A symposium on Geophysical Exploration, organized by the Central Board of Geophysics under the Ministry of Scientific Research and Cultural Affairs of the Government of India, was held on the 15th, 16th and the 17th August, 1959 in the University. Professor Humayun Kabir, Union Minister for Scientific Research and Cultural Affairs inaugurated the symposium. Dr. J. M. Mehta, the Vice-Chancellor, delivered the welcome address and Dr. K. R. Ramanathan presided over the symposium.

(b) Statistical Service Unit: To carry on certain schemes like Statistical Summaries of Medical Inspection Reports, Measurement of Wastage and Stagnation in the University, etc. and to help research workers in classification and statistical work, a Statistical Service Unit was started in August, 1959 with a statistician and an assistant statistician working under the supervision of Shrimati Indira Bhanot, Reader in Statistics.

(c) Government of India Research Training Scholarships: The Ministry of Scientific Research and Cultural Affairs continued the nine research training scholarships each of Rs. 200/- per month.

(d) Rockefeller Foundation Grant: Professor C. V. Ramkrishnan was given a grant by the Rockefeller Foundation for study tour to Australia and other countries for one year.

(e) Ph.D. Thesis: The following theses were accepted by the University for award of Ph.D. degree:

No.	Name of the Student	Subject	Title of the Thesis
1	Kumari K. B. Ambegaokar	Botany	Embryological Studies on the Family Acanthaceae
2	Shri T. N. Sekharyarma	Bio-chemistry	Studies on the Biosynthesis of Citric Acid in Citrus Fruits
3	Shri B. P. Gothoskar	Bio-chemistry	Studies in Tissue Culture
4	Shri W. M. Deshpande	Bio-chemistry	Studies on the Biosynthesis of organic Acid in Garcenia
5	Shri K. N. Scaria	Zoology	Studies on the Structure and Physiology of Vertebrates



## CHAPTER X—(A) FACULTY OF EDUCATION AND PSYCHOLOGY

### 1. Brief History

This institution was started in 1935 as a Secondary Teachers' Training College by the Ex-Baroda Government and was located in 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. Subsequently, it was affiliated to the University of Bombay for the 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 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, M. A. degree in 1954, and later those leading to the Post-graduate Diploma in Guidance and Counselling in 1958 and 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 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. During the year under review the Faculty also started the Guidance and Counselling Centre for University students.

### 2. Building

During the year the Faculty continued to be housed in the old building.

### 3. Courses of studies

There is provision for the following Courses :

- |                              |   |
|------------------------------|---|
| (1) B. A., M. A. and Ph. D.  | Psychology                                |
| (2) B. Ed., M. Ed. & Ph. D.  | Education                                 |
| (3) Post-graduate Diplomas : | (i) Educational Administration            |
|                              | (ii) Guidance and Counselling             |
|                              | (iii) Applied Linguistics                 |
| (4) Diplomas :               | (i) Teaching                              |
|                              | (ii) Child Development & Child Psychology |

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

### 4. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1959-60 was as follows :

Class	Men Students	Women Students	Total
A. Diploma :			
( i ) T. D.	19	10	29
( ii ) Diploma in Child Development and Child Psychology	2	20	22
B. Degree :			
( i ) <del>B. A.</del> B. Ed.	94	21	115
( ii ) S. Y. B. A. ( Psychology )	6	16	22
( iii ) Final Year B. A. ( Psychology )	4	16	23
C. Post-graduate Diploma :			
( i ) Diploma in Guidance and Counselling	3	2	5
( ii ) Diploma in Applied Linguistics	5	2	7
( iii ) Diploma in Educational Administration	6	—	6
D. Post-graduate Degree :			
( i ) M. Ed. ( Thesis )	21	1	22
( ii ) M. Ed. ( Papers ) Junior	17	3	20
( iii ) M. Ed. ( Papers ) Senior	14	2	19
( iv ) M. A. ( Psychology ) Junior	1	5	6
( v ) M. A. ( Psychology ) Senior	4	3	7
E. Ph. D.	22	7	29

### 5. Staff

During the year, the staff of the Faculty consisted of two Professors, one Visiting Professor, six Readers, twelve Lecturers, one temporary Lecturer, two Tutors and one Demonstrator, and eight Class III and eight 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 six Research Assistants, one Research Fellow and two 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. In addition to this one Counsellor one Psychologist, one Technical Assistant, one clerk and one attendant are working in the University Guidance and Counselling Centre started in the Faculty.

#### 6. Library

The Faculty Library was amalgamated with the University Library and the students make use of that Library. The Faculty also maintains small Departmental Libraries. The Reading Room in the Faculty provides facilities for general reading.

#### 7. Museum and Laboratories

##### (1) Museum:

The Faculty Museums contains a large collection of teaching aids for illustrating class-room teaching. During 1959-60, about 140 projects were added. These were prepared by students under the guidance of the members of the staff. According to 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.

S. No.	Items	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1960
		Rs.	Rs.	Rs.	Rs.
1	Museum	9,204=03	800=00	866=00	9,270=03
2	Teaching Aids	1,800=00	1,000=00	150=00	950=00

##### (2) Psychological Laboratory:

The laboratory is equipped with instruments required for psychological experiments. A special section of the laboratory deals with mental tests and includes modern materials required for testing intelligence, aptitude, achievements and personality. The cost of the equipment of the Laboratory is given below:

Item	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1960
	Rs.	Rs.	Rs.	Rs.
Laboratory	36,992=74	472=37	8,395=32	44,915=69

#### (3) Audio-Visual Programme:

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

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

Item	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1960
	Rs.	Rs.	Rs.	Rs.
Audio-Visual Aids	2,341=57	—	53=61	2,395=18

#### 8. Publications

The publications are of three types—books, brochures, articles and papers published from time to time in University or other research journals of high academic importance. The following were the main publications of the members of the staff during the year 1959-60:

Name	Title	Where published
(A) Books:		
1 Professor S. N. Mukerji	Education in India Today and Tomorrow (Revised Edition)	Acharya Book Depot, Baroda, January, 1960
2 Shri D. G. Apte	Teaching of Sanskrit in Secondary Schools	Acharya Book Depot, Baroda, January, 1960
(B) Brochures:		
1 Dr. (Kumari) P. Pasricha and (Kumari) Prem S. Suri	Qualitative Study of the Explanations of Physical Casualty given by Pre-School Children	Published in the form of a pamphlet by the Faculty of Education and Psychology, M. S. University of Baroda, August, 1959.



Name	Title	Where published
2 Dr. (Kumari) P. Pasricha and Shri Sudhir K. Das	A Study of the written Vocabulary of the Sixth Class Children in Delhi Schools	C.I.E. Publication No. 34 published by Central Institute of Education, Delhi-8, January, 1960
3 Dr. M. S. Patel	The Representation of English Sounds in Gujarati	Faculty of Education and Psychology, Baroda, July, 1959
4 Shri S. M. Divekar	An Outline of the Educational Administrative set-up in the U. S. A., the U.S.S.R. England, China and Japan in relation to India	Faculty of Education and Psychology, M. S. University of Baroda, August, 1959
5 Shri M. B. Buch	I—Achievement Tests for Std. VIII in : 1 Gujarati 2 English 3 Algebra 4 Geometry 5 General Sciences 6 History 7 Geography 8 Arithmetic  II—Achievement Tests for Std. IX in : 1 Gujarati 2 English 3 Algebra 4 Geometry 5 Arithmetic 6 General Science	Oriental Longmans Private Ltd., March, 1960  Faculty of Education and Psychology, March, 1960
6 Shri D. B. Desai	Progressive Matrices Test (1956-version) applied to a group of secondary school going children in Gujarat	Faculty of Education and Psychology, March, 1960
7 Shri J. J. Patel	Teachers' Source Book of Audio-Visual Aids	Department of Extension Services, Faculty of Education and Psychology, Baroda, August, 1959
(C) Articles and Papers :		
1 Shri L. J. Bhatt	(a) Guidance and Student Personnel Services	Journal of Educational and Vocational Guidance, November, 1959

Name	Title	Where published
	(b) Study of Behaviour through contextual method	Journal of Education and Psychology, January, 1960
2 Dr. A. S. Patel	(a) A study of attitudes of University students towards some current issues  (b) Warm-up effects in a Psychomotor Task as a function of effort, distribution of practice and Sex differences	M. S. University Journal, March, 1960  Journal of Education and Psychology, October, 1960
3 Dr. M. S. Patel	(a) Teaching New Words and Structures  (b) A note on the Introduction of English from Std. V  (c) The Educational Aims of Mahatma Gandhi  (d) English at the Pre-University Level	The Educational Forum, Delhi, October, 1959  Bombay Educational Journal, September, 1959  Buniadi Talim, New Delhi, January, 1960  Journal of Education and Psychology, January, 1960
4 Shri M. B. Buch	Attitudes of Secondary School teachers towards their profession	Journal of Education and Psychology, Vol. XVII, No. 3, October, 1959
5 Shri J. J. Patel	"When Pupils teach themselves"	"Teacher Education", July, 1959

The Journal of Educational and Psychology edited by Professor T. K. N. Menon continued to be published during the year. 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.

The Journal of Vocational and Educational Guidance 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.

The Administrative Bulletin, edited by Professor S. N. Mukerji was started this year. It is published every term.



## 9. Literary, Cultural and Other Activities

### (1) Department of Extension Services :

The Department of Extension Services has completed five years during 1959-60. It is financed both by the Directorate of Extension Programmes for Secondary Education, Ministry of Education and the Bombay State Government. The total amount sanctioned by the Ministry of Education during the year 1959-60 was Rs. 20,077-00 and that sanctioned by the Bombay State Government during the year 1959-60 was Rs. 6,250/-. The Department caters to the needs of secondary teachers of South Gujarat.

To teachers, who are trained and who have no further scope of joining a training college, the Department of Extension Services extends its services and keeps them abreast of the new trends in the theory and practice of education. The Department is carrying out a vigorous programme of inservice training of secondary school teachers through a number of refresher courses, seminars, workshops and short-term courses. It has established a number of miniature libraries in some of the schools within its jurisdiction.

During the year 1959-60 the Department organised 48 Seminars, Refresher Course, Workshops, Follow-up Seminars, Week-end Courses. In all about 1000 teachers participated in the activities of the Department. As many as 400 secondary schools were covered through its extensive programme. The Department also undertook some educational experiments pertaining to methods of teaching, Cumulative Record Cards, examination reforms, diagnostic and remedial teaching in about 12 different schools within its area. Twenty exhibitions of teaching aids were arranged in 16 different towns. About 200 films were screened and about 250 filmstrips were given on loan by the Audio-Visual Section of the Department. About 500 books were issued to the different schools during the year under review.

### (2) The Rural Education Project :

The Faculty continued to maintain rural centres at Ranoli, Bajwa, Vasad, Chhani and Waghodia and render educational services for the development of the villages. The following items of work were carried out during the year :

- (1) Library service to children and adults
- (2) Medical and health service

- (3) Cultural and Social activities
- (4) Organisation of Science Club
- (5) Seminars on day-to-day problems of teaching
- (6) Educational Exhibitions and
- (7) Demonstration Lessons

### (3) Other Activities :

Some of the members of the staff delivered public lectures and gave extension talks in the various schools where seminar and workshops were arranged by the Department of Extension Services of the Faculty. They gave radio talks, read papers and took part in the discussions of the Tenth World Conference of New Education Fellowship, Indian Science Congress, Vocational Guidance Conference and other assemblies to which the members of the staff were deputed. Some of them were also associated with academic, literary and cultural activities in and outside Baroda.

## 10. Co-curricular Activities

The Faculty Club is an active organisation for co-curricular activities. During the year it arranged :

- (1) Periodical lectures and discussions on educational topics by educationists, and elocution competitions,
- (2) Tournaments and competitions in various indoor and outdoor games and sports,
- (3) Celebrations of Gandhi Jayanti, Kalidas Jayanti, Tagore Jayanti and other days of national importance,
- (4) Excursions of students to North India, Bombay, Poona, Ellora, Mount Abu and nearby places,
- (5) Variety entertainment programmes and social evenings and
- (6) Film shows and exhibitions on educational topics.

The students of the Faculty also participated in Inter-Faculty Debates and took part in drama, garba, group songs and other competitions arranged during the University Week and won prizes in debate, drama, etc. The Faculty has a number of cultural and social organisations viz. the Psychological Society, Science Teachers' Club, Audio-Visual Club, Administration Club, Gujarati Sahitya Mandal and the Old Students' Association. They organized a number of activities like lectures by distinguished visitors, seminars, excursions, exhibitions, film shows, etc.

The outstanding event of the year was the inauguration of the Silver Jubilee Celebration of the Faculty on March 25, 1960 by Professor



S. Radhakrishnan, Vice-President of India. The function was attended by a large gathering including a number of alumni of the institution.

### 11. Tests and Class Work

Every student of this Faculty is attached to a tutor. He is required to meet his tutor at least once every week. The following items are generally discussed :

- (1) day-to-day progress of the student,
- (2) solution of problems with which the student is confronted—academic or otherwise, and
- (3) important items of work, viz. preparation of teaching aids, term-papers, library work, etc.

The system of tutorial and class work has been in vogue for the last two years and it has proved useful to the students; it also helps the Faculty staff to get an insight into some of the important problems of the students.

### 12. Practice Teaching

In the beginning of the academic year, a set of demonstration lessons in various subjects is arranged with a view to orienting the pupil teachers in the general as well as in the specific techniques of teaching them. Later on a number of criticism lessons are arranged with a view to orienting the pupil-teachers in the technique of criticising lessons.

During the year, practice-lessons were arranged in the following schools of Baroda: (1) Wadi High School, (2) Bharati Vidyalaya, (3) H. V. Shroff Memorial High School, (4) Shree Sayaji High School, (5) Shree Sayaji Girls' High School, (6) Maharani High School for Girls, (7) Jayashree Junior Model High School, (8) Jayashree Senior Model High School, (9) Muslim High School, (10) Shree Pratap High School, (11) New Era Girls' High School, (12) New Era High School, (13) University Experimental School, (14) Hill Memorial High School, (15) Convent of Jesus and Mary and (16) Jivan Sadhna.

This year, the off-campus programme was arranged for a week from the 5th to the 10th October, 1959. The following places were selected for the purpose: (1) Kapadvanj, (2) Miyagam-Karjan, (3) Palej, (4) Vaso, (5) Halol, (6) Kalol, (7) Anand, (8) Lunavada, (9) Shuklatirth, (10) Jhagadia, (11) Devgad Baria, (12) Ode and (13) Mobha.

The main items of work in each centre comprised of: (1) Demonstration lessons, (2) Practice lessons, (3) Discussions on methods of teaching, teaching aids, C. R. C. testing techniques, etc., (4) Visits to places of educational interest and (5) Cultural programme.

### 13. Field Work

The Faculty has introduced the 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 schools, meet teachers and study the problems thoroughly, following the recognised techniques of research. The system worked well and the students profited from it in special methods and fields.

### 14 Other Important Events

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

- 1 Sixteen Cambodian Educationists under the auspices of the Technical Co-operation Mission
- 2 The delegation of Educationists from Nepal
- 3 Professor Ben Morris, Professor of Education and Director of Institute of Education, University of Bristol
- 4 Professor Frank Irwin, Professor of Education, Glasgow University
- 5 Colonel B. H. Zaidi, Vice-Chancellor, Muslim University, Aligarh
- 6 Mr. J. E. Scapp, First Secretary for Cultural Affairs, Royal Netherlands Embassy
- 7 Dr. T. A. Purushottam, Principal, Shri Venkateshwar University College, Tirrupati
- 8 Dr. Richard W. Kilbey, Professor of Psychology, San Jose State College, California
- 9 Dr. Margaret Cormarck, U. S. Full Bright Professor
- 10 Professor Walsh, Head, Department of Education, University of Leeds
- 11 Dr. W. J. Gedney, Professor of Linguistics, New York State University, New York
- 12 Professor Hans Simons of the Ford Foundation

(2) Dr. J. M. Mehta, Vice-Chancellor of this University, inaugurated (a) The University Students Councelling Centre, (b) Diploma



Course in Child Psychology and Child Development, ( c ) Post-graduate Diploma Courses in ( i ) Applied Linguistics and ( ii ) Educational Administration in this Faculty.

( 3 ) Professor L. A. Hill, Chief Education Officer, British Council, New Delhi inaugurated the English Teachers' Association .

( 4 ) Professor T. K. N. Menon attended the International Conference on Educational Research held at Tokyo from the 31st August to the 8th September, 1959 as a delegate from India.

( 5 ) Dr. Eugene P. Link was appointed as a Visiting Fulbright Professor to this Faculty by the United States Educational Foundation ( September 1959 to March 1960 )

## CHAPTER X (B)—UNIVERSITY EXPERIMENTAL SCHOOL

### 1. Brief History

The University Experimental School came into existence in 1951 with the establishment of Primary Class I and Secondary Class V. Later on, during the same year, the Gujarati Section of the Ex-Baroda High School was taken over by the University with its then existing classes VIII to XI. Gradually a class was added every year, and since 1954 this school has been functioning as a full-fledged High School with all the classes upto S.S.C. It also serves the purpose of a Laboratory to the Faculty of Education and Psychology for its courses of Educational Theory and Practice, to the Department of Psychology for experimentation, and to the Faculty of Home Science for observation in Child Development Course.

### 2. Building

The school continued to occupy the ground floor of the Faculty building with all its facilities of class-rooms, Laboratory, Craft Room and Canteen.

### 3. Courses of Study

The school follows the prescribed syllabus of the State Education Department with its educationally supplemented methods of teaching such as projects, excursions, group-study and debates. During the year under report, the children carried on the following project studies as part of their syllabus :

<i>Sr.No.</i>	<i>Name of the Project</i>	<i>Subject</i>	<i>Class</i>	<i>Guiding Teacher</i>
( 1 )	Scientists and Their Bequests (2nd Phase)	Science	X-XI	Sarvashri A. J. Desai and G. B. Nimbalkar
( 2 )	Study of some great lives	Gujarati	VI	Kumari S. R. Patel
( 3 )	Study of the game 'Kabadi'	Physical Education	VII	Shri M. C. Joshi
( 4 )	On 'Interest'	Mathematics	VI	Shri J. M. Chaudhary



Sr.No.	Name of the Project	Subject	Class	Guiding Teacher
(5)	On 'Australia'	Geography	VII	Shri J. M. Chaudhary
(6)	On 'Social Studies Through Projects'	Social Studies	IX	Kumari R. M. Tachakara

#### 4. Experiments and other Educational Activities

##### (1) Experiments :

During the year the school continued its programme of experiments in teaching methods and evaluation. The experiment on the Examination Reforms was continued. The Directorate of Extension Services, New Delhi, released the second instalment of Rs. 750 as grant for this experiment. Work on this experiment will be completed with the final examinations of April, 1960 and its follow-up programme. Experiments on 'Supervised Studies' in other subjects are also carried out on the same lines. Two scholars on Literature and Astrology were invited to pilot the discussions on the subjects of their fields.

##### (2) Individual Study :

The work of a few individual studies of backward students was completed and necessary information was collected by visiting homes and by counselling the students. On the strength of reports, piloting guidance work is planned this year with a few cases of Classes VIII, IX and X.

##### (3) Integration with other Examinations :

To enable the children to appear at other examinations such as special examinations in Hindi, Gujarati, Sanskrit, General knowledge and Scholarship examinations facilities were provided with the work of the school. A good number of children took advantage of these examinations and the results obtained were encouraging

##### (4) Achievement in Fine Arts Activities :

- (a) 21 students of the school appeared at the Elementary and Intermediate Grade examinations and 20 passed successfully. 6 students passed with Credits.
- (b) Pictures drawn by 35 students were sent to Child Art Competitions at which 6 of the children won prizes.

- (c) Paintings of 8 children were sent to All Bombay State Art Exhibition at Ahmedabad. All these paintings were accepted for exhibition.

##### (5) Examination :

'No examination—Pass' system has been introduced this year in only one class i.e. VII. A child who obtains 60% marks on the aggregate during the periodical tests throughout the year and also maintains creditable progress in other activities of the school is completely 'exempted' from appearing at the 'Annual Examination' and is given a safe 'PASS' without 'Examination'. This system will be made applicable gradually to other classes on the basis of the results of this class.

#### 5. Strength of the School

The total number of children receiving education at the end of the year were 398: 231 Boys and 167 Girls.

#### 6. Staff

The school continued to have a Principal, 16 teachers and 3 class III and 7 class IV servants. As an experimental measure, 2 part-time student-teachers from the Faculty were appointed.

#### 7. Library

There are about 8,300 books in stock. About 10 books on the evaluation of children have been added from the Examination Reforms Scheme Grant. The collection contains important publications for children as well as educational journals for the members of the staff. To stimulate the reading interest of children, a system of class-library is maintained and a record of the number of books read by each child during the year is also maintained. All the children of the school have been given facilities to read the extra books, which are issued from the general library and this helps them in collecting useful data for their project studies.

#### 8. Museum, Laboratory and Picture Gallery

A collection of toys has been added to the existing Museum, and a "Picture Gallery" has been introduced. This gallery is intended to exhibit selected work of children month by month. A separate Demonstration Room has been added to the Laboratory. A printed book on the work of the "Science Club" in this field has been prepared and published by the Department of Extension Services.



#### 9. Activities of the members of the Staff

Shri G. P. Bhatt, Principal of the school, was granted the teacher-education grant for the year 1959-60 by the United States Educational Foundation in India and he visited some Institutions of educational importance. He was also awarded a Post-graduate Diploma in Educational Administration by the University of Southern California.

2. Shri R. S. Shah attended a second course in the Teaching of English conducted by the Central Institute of English in July-October, 1959 at Hyderabad under the auspices of the Ministry of Education.

3. Shri A. J. Desai, Ag. Principal, attended a 3-day Seminar during February, 1960 organised by the Directorate of Extension Services, New Delhi to discuss the progress and report of Experiments in Secondary Schools.

4. Talks and lectures by outside teachers and officers were arranged in the School.

#### 10. Festivals and Important Events

During the year, the school (1) celebrated the Parichaya Day, Sharadotsava, 10th University Youth Festival, Physical Education Days, Audio Visual Week, Gandhi Jayanti, Independence Day and Nirvana Day : (2) organised a one-day camp at Ratanpura, a village near Baroda city; students white-washed the school hall, cleared the play-ground and also painted the village temple : (3) organised study excursions to Kakrapar, Bardoli, Billimora, Unai and Dabhoi : (4) participated in a school made Radio-Play Competition organised by the All India Radio during December, 1959 : (5) organised a 3-day A.C.C. Camp at Atladara in February, 1960; students made an approach road to the school and also staged an entertainment programme in the evening : (6) managed the working of the school for one day during the month of January, 1960 and continued the activity of 'Self-Government in the School' : (7) won the Garba Trophy in the 10th University Youth Festival : (8) participated in the Reading Contest organised by Ramkrishnan Mission, Baroda and won all the first prizes.

### CHAPTER XI—FACULTY OF COMMERCE

#### 1. Brief History

The Pratapsinh College of Commerce and Economics, started in 1942 and previously affiliated to the University of Bombay became a constituent part of the University in April, 1949 and was designated Faculty of Commerce. Instruction is given here to impart liberal education as well as some professional training for careers in business. The courses of study aim at imparting both a broad background of understanding of social and economic environments and the basic knowledge of the structure of economic and business activity.

#### 2. Building

The Faculty is accommodated in the west wing of the old Baroda College building. The New building to be called the 'Social Sciences Block' on the east side of the Faculty of Arts, on Lokmanya Tilak Road, is being constructed for the Faculty.

#### 3. Courses of Studies

There is provision for the following courses :

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



#### 4. Number of Students

The number of students enrolled is as under :

Class	Men	Women	Total
(1) Diploma in Co-operation	1	—	1
(2) B.Com First year	362	5	367
Second year	232*	1	233
Third year	256	6	262
Total	850	12	862
* Four students are permitted to join Diploma in Co-operation.			
(3) Post-Graduate Banking	13	—	13
(4) Jr. M.Com.	35	—	35
Sr. M.Com.	21	—	21
Total	56	—	56
(5) Ph.D.	4	1	5
Grand Total	924	13	937

#### 5. Staff

During the year the staff of the Faculty consisted of 2 Professors, 6 Readers, 8 Lecturers, 3 part-time Professors, 1 Tutor, 4 class III and 10 class IV servants.

#### 6. Literary, Cultural and other Activities

Shri B. V. Bhatt, Manager, Sales Division, Calico Mill, Ahmedabad gave two lectures on "Employees' participation in management" and "Marketing and its place in Indian Economy during the next thirty years".

A Symposium on Co-operation was arranged under the presidency of Dr. A. U. Sheikh, M.A., Ph.D., I.A.S., Registrar, Co-operative Societies, Bombay State. Dr. M. B. Desai of the Bombay School of Economics gave a talk on "Agricultural Resources of Maha-Gujarat" under the Extra Mural Programme of the Faculty.

The Faculty also invited Dr. A. K. Dasgupta, Deputy Director, General National Council of Applied Economic Research, New Delhi and Shri S. L. N. Sinha, Director in Charge, Economic Department, Reserve Bank of India, Bombay as Visiting Professors.

An American Trade Mission visited the University campus and a Symposium on American assistance to India for Economic Development was arranged. The members of the delegation spoke on different aspects of the subject.

Dr. John Millar and Dr. Earnest Dale, two distinguished American Economists addressed the students of the Faculty.

The Faculty also celebrated National Plan Day by organising a symposium on the Third Five Year Plan. A prize debate and an Essay competition were also held.

An exhibition on Life Insurance was arranged in the Faculty premises during the year under report.

#### 7. Tests and Class Work

One Terminal Examination and two Mid-term tests are held in each paper or subject of the three year degree course and a class record of these is maintained; 30% of the marks in each paper are awarded for this class record.

#### 8. Other important events

The Faculty had an eventful year. The Expert Committee of the University Grants Commission visited the Faculty in July, 1959 to discuss the scheme of introducing the Post-graduate Diploma Course in Co-operation. The scheme has been sanctioned by the University Grants Commission along with the following recurring and non-recurring grants :

(1) Recurring	Rs.
(a) Staff :	
One Reader and two Lecturers	24,000
(2) Non-recurring	
(a) Building	54,000
(b) Books	10,000
(c) Equipment	5,000

The Dena Bank Trophy Debate was held on the 19th September, 1959. The subject of the Debate was 'In the opinion of this house encourage-



ment of private individual enterprise alone will lead to rapid economic development on the democratic lines.' The following colleges in Gujarat participated in this debate :

- (1) H. L. College of Commerce and Economics, Ahmedabad
- (2) Gujarat Law Society Commerce College, Ahmedabad
- (3) Faculty of Commerce, Baroda
- (4) Sir K. P. College of Commerce, Surat
- (5) B. J. Vanijya Mahavidyalaya, Vallabh Vidyanagar

The Trophy was won by the H. L. College of Commerce, Ahmedabad.

The Faculty participated in all the items of competition during the celebration of the University week and won the third prize in the drama contest.

## 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/- lacs 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. Buildings

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. and O., D.O., D.V. & D. and D.G.O.

#### 4. Number of Students

The number of students enrolled in various classes in the year 1959-60 is as under :

Class	Men	Women	Total
(1) DEGREE			
First year	41	21	62
Second year	18	1	19
Third year	57	11	68
Fourth year	53	9	62
Fifth year	90	10	100
Total	259	52	311
(2) POST-GRADUATE DIPLOMAS			
D.L. and O.	5	—	5
D.A.	2	—	2



D.C.P.	5	—	5
D. Ped.	4	—	4
D.O.	2	—	2
D.V. and D.	2	—	2
D.G.O.	2	2	4
<b>Total</b>	<b>22</b>	<b>2</b>	<b>24</b>

## (3) POST-GRADUATE DEGREE

M.Sc.	8	1	9
M.D.	23	5	28
M.S.	17	—	17
<b>Total</b>	<b>48</b>	<b>6</b>	<b>54</b>

Grand Total      329                  60                  389

## 5. Staff

The staff of the College consisted of a Dean, 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 :

S. No.	Particulars	Number
1	Average number of students making use of the Library and the Reading Room daily	41
2	Average number of teachers making use of the Library and the Reading Room daily	25
3	Total number of books issued to students during the year	12,335
4	Total number of books issued to teachers during the year	1,851

S. No.	Particulars	Number	Cost in Rs.
1	Books ( including back numbers of journals ) as on 1-7-1959	7,040	1,17,308-79
2	Books written off during the year	—	—

S. No.	Particulars	Number	Cost in Rs.
3	Books added during the year	393	9,753-28
4	Books as on 31-3-1960	7,433	1,27,062-07
5	Amount spent on binding during the year	129	7,275-49
6	Total amount spent for Library and Reading Room, during the year		17,028-77
7	Museum Laboratory, Studies, Workshops etc.		

S. No.	Item	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1960
		Rs.	Rs.	Rs.	Rs.
1	Museum	3,21,136=00	346=00	—	3,20,790=00
2	Laboratories	5,77,743=00	3,557=00	34,602=00	6,08,788=00
3	Studios	12,663=00	—	820=00	13,483=00
4	Work-shops	—	—	—	—
	<b>Total :</b>	<b>9,11,542=00</b>	<b>3,903=00</b>	<b>35,422=00</b>	<b>9,43,061=00</b>

## 8. Publications by the members of the staff

Articles or papers published in the University or other research journals and books of high academic importance by the members of the staff published during the period 1st July, 1959 to 31st March, 1960 are as under :

## (i) ARTICLES OR PAPERS

S. No.	Name	Title	Name of the Journal wherein published
1.	M. L. Pai	(a) A study on excretion of some nitrogenous constituents in urine in normals	Proceedings—Abstracts Part III, Indian Science Congress Medicine and Veterinary Science Section 445, 1959



S. No.	Name	Title	Name of the Journal wherein published
		(b) Results of fractional gastric Analysis in gastric disorders	Proceedings—Abstracts Part III, Indian Science Congress Physiology—Section Page 511, 1959
2.	Dr. M. L. Pai and Dr. B. K. Apte	Results of the study of the effect of various food preparations on the gastric secretory function as determined by standard incubation method	Proceedings—Abstracts Part III, Indian Science Congress Physiology—Section Page 577, 1960
3.	Dr. B. A. Sayed and Dr. K. N. Sahgal	Synovial Sarcoma	Indian Journal of Surgery, August, 1959
4.	Dr. B. A. Sayed, Dr. P. T. Acharya and Dr. Sanat Shah	Ascaris lumbricoides as the cause of intestinal obstruction and death	Journal of Child Health, 1959
5.	Dr. B. A. Sayed, Dr. K. N. Sahgal and Dr. T. V. Patel	Right sided congenital diaphragmatic hernia	Indian Journal of Paediatrics, Volume 26, No. 141, October, 1959, Page 375 to 377
6.	Dr. B. A. Sayed, Dr. N. B. Parikh and Dr. T. V. Patel	Krukenberg tumour of the ovary	The Journal of Obstetrics and Gynaecology of India, December, 1959
7.	Dr. B. A. Sayed, Dr. K. N. Sahgal and Dr. M. D. Patel	Eosinophilic granuloma presenting as a bone	Indian Journal of Child Health, February, 1960
8.	Dr. A. K. Niyogi, Dr. P. A. Purohit and Dr. S. R. Trivedi	Some aspects of the epidemiology of Syphilis and its prevention	Journal of Indian Medicine Association, Vol. 33, October-November, 1959

## 9. Literary, Cultural and Other Activities

During the year under report, 25 films on various interesting and informative subjects were shown to the students and the members of the staff.

## 10. Co-curricular Activities

(i) 45 students with the junior lecturers of Preventive and Social Medicine of this College visited the following institutions in December, 1959. (a) Acworth Leprosy Home, Vadala, Bombay, (b) School Health Work L. K. V. Municipal Gujarati School, Bombay, (c) All India Institution of Physical Medicine and Rehabilitation, Mahalakshmy, Bombay, (d) Maternal and Child Welfare Unit, Bombay. The University contributed Rs. 700 towards the travelling expenses of this educational tour.

(ii) The students participated in the University Week celebrations in December, 1959.

(iii) Annual sports of the college were held in January, 1960.

(iv) This college participated in Inter Medical, Inter Faculty and Inter University sports, debates, etc. during the year.

## 11. Tests and Class Work

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

## 12. Other Important Events

The Twelfth Annual Conference of the Otolaryngologists of India was held on the 4th, 5th and the 6th January, 1960.



## (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 shall give a yearly grant of Rs. 36,000/- for its maintenance and organised 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, laboratory and the administrative office of the Unit are accommodated in two halls on the first floor of the Medical College buildings. 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 a Honorary Head of this Unit.

### 4. Functions of the Unit

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

### 5. Library

During the year under report 31 new books and 60 bound back numbers of journals have been added bringing the total to 2,396. Eight Ayurvedic journals were subscribed to during the year.

### 6. Museum

About 350 crude drugs samples and 200 herbarium specimens have been collected to organise a crude drugs museum and a herbarium for reference. They are classified only alphabetically owing to shortage of storage cupboards. In due course, a method for cross reference—Ayurvedic and Botanical classification will be evolved and special arrangement for storing will also be made. A relief model of India has been prepared by the Research Assistant in Pharmacognosy showing the distribution of important medicinal plants.

### 7. Research

#### (1) Out-patient Department:

During the year under report 1094 patients took advantage of clinical facilities provided by the Unit. The disease spectrum of patients who attended the department was as follows:

पाण्डु—गङ्गी—उदर—शोथ—वातव्याधि—कुष्ठ—श्वासकास—प्रमेह—प्रदर—अपचो—  
अपस्मार—उन्माद—शूल—परिणामशूल—अग्निमांश—ज्वर—विद्रधि—दुष्टव्रण—ग्रंथि—आमवात—  
संधिवात—अर्श—अर्बुद—स्थूल्य—राजयक्ष्मा

#### (2) In-patient Department:

33 patients were admitted and treated in this department during the year and were diagnosed as shown below:

पुत्रीषजकृमि-७, ग्रहणी-२, श्वास-९, पाण्डु-१, शोथ-२, पक्षवध-१, प्लीहोदर-जलोदर-४,  
यकृदात्युदर-जलोदर-४ प्रकीर्ण-२.

(3) The research activities of the Unit have been organised under the following sub-heads:

(A) *Clinical Research*: Two clinical problems have been taken up for study.

(i) *Tamaka Shwasa*: Evaluation of efficacy of Pushkaramula and Panchkarma therapy:

Nine patients with this disease were admitted in the Ayurvedic Research Ward during November, 1959 to April, 1960. Patients were diagnosed by Ayurvedic methods and the diagnosis was confirmed by the Medical Officer. All patients were subsequently treated with Pushkaramula and evaluated both by a Vaidya and the Medical Officer. A report of this study is sent for publication. A second series has been planned, to



study the efficiency of Panchakarma therapy in the treatment of Tamaka Shwasa and the work is in progress.

(ii) *Shotha and Jalodara*: Patients of Shotha Roga were admitted in the In-patient Department and classified under various types as described in Ayurved, on the basis of clinical manifestations. Out of these seven cases of Jalodar due to cirrhosis of liver, were taken up for clinical study. In every case the diagnosis was confirmed by the Medical Officer by clinical examination and liver biopsy. Patients were then treated by Punarnadh Kwatha and Arogya Vardhani and clinical progress evaluated. The work is in progress.

(B) *Academic Research in the fundamentals*: Two problems were taken for study.

(i) Assesment of the role of Agni in the pathogenesis of disease. Work is in progress.

(ii) Study of रूढ-गुण-वीर्य-विपाक of drugs with reference to their pharmacological action. Initial pilot study was conducted as directed by the Unit Research Committee. Further work is in progress.

(C) *Pharmacological Research*:

(i) Pharmacological screening of Ayurvedic preparations: Serial soxhelt extracts of Galo (*Tinospora cardifolia*), Pimpli (*Chavica Roxburgi*), Mamejwo (*Enicostemma littorale*) and Lajjaloo. (*Mimosa pudica*) using water, alcohol, chloroform and petroleum ether as solvents, have been prepared; preliminary pharmacological work with other indigenous drugs is in progress.

(D) *Pharmacology*:

This was started in August 1958, to explore the possibilities of organising a laboratory to investigate indigenous drugs pharmacognostically. Its important aims are to conduct pharmacognostic and allied studies of indigenous drugs, and subject those drugs that are used for research purposes in the Ayurvedic Unit and the Pharmacology Department to a thorough examination so that their purity, genuineness and botanical identity may be established. It is thus 1½ years old and has acquired during the year a separate laboratory and a drugs-drying and store room. There is a research assistant for the research activities and a class IV servant to look after the medicinal plant garden of the Unit.

Apart from the basic equipment with which it was started, it has now acquired optical instruments, chemicals and the necessary books to carry out microscopical study of drugs. About thirty books have been added since July last. From the beginning of January, 1960 about 6 journals which usually carry research papers on the subject are being subscribed to. The museum is also being organised.

A visit to different places, Dehradun, Lucknow and Jammu was undertaken, to see and learn how to organise a good Pharmacognosy Laboratory to conduct valuable research and a report of the visit submitted.

Experimental cultivation is one of the items on the future programme of this section where a start has already been made in a plot allotted by the University. In this connection, the Research Assistant visited the cultivation centres at the places already mentioned and also attended the Medicinal Plants Committee Meeting of the ICAR, as an observer to understand and explore the possibilities of a cultivation scheme for Gujarat.

The following papers have been published during the year under report:

Name of contributor	Title	Year and date of publication
1. G. K. Karandikar and S. Satkapan	"Shankhpushpi" —A Pharmacognostic study Part 1	The Indian Journal of Pharmacy, 1959, July
2. "	" Part 2	" "
3. "	" Part 3	" December, 1959

The pharmacognostic studies of Rudanti, Malkangani, and Mundinika have been completed and will be published in due course.

A survey of the drugs that have common names in different parts of India, though they are different, and those that have different names though they go by the same name botanically, is being attempted, with a view to study the ambiguity that exists, and find out material that could be beneficially worked out as more important than other. A comparative study of Pushkaramul and Kuth has also been started during the year.

8. *Rasashala*

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



## 9. Literary Work

(1) Shri Y. R. Pandit, Junior Research Vaidya has prepared a detailed note on symposium of ग्रहणी रोग, which has been published in the three languages: (i) Gujarati, (ii) Marathi and (iii) Hindi in 'सिद्धान्त-भारती' of Surat, 'आयुर्विद्या' of Poona and 'सचित्र-आयुर्वेद' of Calcutta respectively in their December, 1959 to March, 1960 numbers in three parts.

(2) Shri Bhagwan Dash has prepared an article on the concept of Tamakashwasa and the Ayurvedic Therapy on the basis of the clinical observations of the patients admitted in the ward of the Unit.

(3) Shri D. K. Pathak has written an article on हृत्स्पन्द Heart beat which has been published in 'सुश्रुत' a local Ayurvedic Magazine of Baroda.

## 10. Clinical discussions

Clinical discussions on the following diseases were held and recorded:

(1) शोथ + उदर including जलोदर, (2) तमकश्वास.

## 11. Visitors

Dr. C. Dwarkanath, Adviser in Indigenous Systems of Medicine, Government of India visited the Unit on the 27th December, 1959.

Shri Hari Datta Shastri, Director of Ayurveda, Bombay State visited the Unit on the 9th January, 1960.

## CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

### 1. Brief History

The Faculty of Technology and Engineering is a development of the old institution popularly known as the Kalabhavan, which was founded in the year 1890 by the former Government of Baroda. Till the year 1948, it continued to have diploma and certificate courses in Civil, Mechanical and Electrical Engineering, Textile Technology, Textile Chemistry and Architecture. It 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 some funds for additional buildings and equipment. The University brought all the above courses under the Faculty of Technology and Engineering.

Under its development programme the University instituted the following additional Degree and Post-graduate courses with the strength mentioned against each:

Course	Year	Number of admissions
1 B.Text. Engineering degree course	June, 1953	15
2 B.Arch. degree course	June, 1954	40
3 B.Text. Technology degree course	June, 1955	10
4 Post-graduate degree course for Ph.D. degree in Textile Chemistry	June, 1955	2
5 Post-graduate courses for the degree of M.E., in Civil Mechanical and Electrical Engineering	June, 1956	6

The Faculty discontinued with effect from June, 1957, the conduct of diploma courses in Engineering and instead increased the number of admissions to the degree courses in Engineering from 75 to 240. Under the same scheme the Diploma courses in Civil, Mechanical and Electrical Engineering are now conducted with admissions increased from 180 to 300 in a separate Polytechnic established since the 23rd June, 1957 for the purpose.



## 2. Buildings

The buildings of the Faculty comprises of the following :

( 1 ) Main building, ( 2 ) Hydraulic and Metallurgical laboratories, ( 3 ) Gas room and ( 4 ) Workshop, Textile Technology and Textile Chemistry buildings.

The construction of the main concrete road running north-south on the western side of the Faculty building together with approach roads from it to the building at two points and further down to the Workshop building is nearing completion.

The construction of the extension to the Boiler House and the Heat Engines Laboratory of the Faculty is completed 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

There is provision for the following Courses :

( 1 ) B. E. and M. E.	Civil, Electrical Mechanical
( 2 ) B. Text	Engineering, Technology
( 3 ) B. Arch.	Architecture
( 4 ) Diploma	Textile Chemistry, Textile Technology
( 5 ) Certificate	Turner and Fitter, Wireman, Dyeing, Weaving

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

	Men	Women	Total
( 1 ) Certificate classes :			
Turner and Fitter I Year	75	—	75
Turner and Fitter II Year	38	—	38
Wireman	31	—	31
Dying I Year	10	—	10
Dying II Year	11	—	11
Weaving I Year	15	—	15
Weaving II Year	11	—	11
	191	—	191

## ( 2 ) Diploma Classes

	Men	Women	Total
Dip. Text. Chem. I Year	42	—	42
Dip. Text. Chem. II Year	27	—	27
Dip. Text. Chem. III ( Final ) Year	54	—	54
Dip. Text. Tech. Preparatory	34	—	34
Dip. Text. I Year	37	—	37
Dip. Text. II Year	37	—	37
Dip. Text. III ( Final ) Year	33	—	33
	264	—	264

## ( 3 ) Degree Classes

	Men	Women	Total
F. E. ( Civil )	131	—	131
F. E. ( Mechanical )	56	—	56
F. E. ( Electrical )	54	—	54
F. Text. ( Engg. )	15	—	15
F. Text. ( Tech. )	21	—	21
S. E. ( Civil )	99	1	100
S. E. ( Mechanical )	82	—	82
S. E. ( Electrical )	64	—	64
S. Text. ( Engg. )	6	6	6
S. Text ( Tech. )	6	6	6
T. E. ( Civil )	90	1	91
T. E. ( Mechanical )	72	—	72
T. E. ( Electrical )	63	—	63
T. Text. ( Engg. )	22	—	22
T. Text. ( Tech. )	7	—	7
B. E. ( Civil )	121	—	121
B. E. ( Mechanical )	102	—	102
B. E. ( Electrical )	67	—	67
B. Text. ( Engg. )	16	—	16
B. Text. ( Tech. )	6	—	6
B. Arch. I Year	42	7	49
B. Arch. II Year	45	2	47
B. Arch. III Year	38	—	38
B. Arch IV Year	32	1	33
B. Arch. V Year	53	2	55
	1,310	14	1,324



	Men	Women	Total
(4) Post-graduate Course			
Master's degree—Junior	7	—	7
„ „ —Senior	14	—	14
	21	—	21
Grand Total :—	1,786	14	1,800

#### 5. Staff

During the year, the staff of the Faculty consisted of 8 Professors, 12 Readers, 55 Lecturers, 4 Part-time Lecturers, 53 Demonstrators, 105 Class III and 82 Class IV servants.

#### 6. Library

(1) Apart from the recurring grant from the University, the Faculty received Rs. 41,000 and 50,000 during the year from the University Grants Commission for books and periodicals, and the renovation of the Faculty Library respectively. It also received Rs. 4,000 and Rs. 600 respectively for books and periodicals under the Expansion Scheme of the Degree Courses.

(2) The Library and the Reading Room are kept open on all working days from 11 a.m. to 10 p.m. During examination days they were kept open as above on holidays and Sundays also.

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

Sr. No.	Particulars	Numbers
1	Average number of students making use of the Library and Reading Room daily	165
2	Average number of teachers making use of the Library and Reading Room daily	15
3	(a) Total number of books issued to students during the period for (home reading)	7,600
	(b) Total number of books issued to students for reference only during the period	4,500
4	Total number of books issued to teachers during the period	1,100

The following figures show the stock and the expenditure on the maintenance of the Library and Reading Room during the year 1959-60 :

S.No.	Particulars	Number	Cost in Rupees
1	Books (including back number of Journals) as on 1-7-1959	14,118	2,24,861=61
2	Books written of during the year	2	18=69
*3	Books added during the year	1,253	21,817=18
4	Books as on 31-3-1960	15,369	2,46,660=10
5	Journals subscribed during the year	88	3,700=00
6	Amount spent on binding during the year	—	1,399=75
7	Staff	—	8,955=00
8	Total amount spent for Library and Reading Room during the year	—	35,871=93

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

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

S. No.	Item	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1960
		Rs.	Rs.	Rs.	Rs.
	Laboratories, Workshops and Studios	32,63,553=65	—	46,492=46	33,10,046=11

#### 8. Publications of the members of the staff

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

##### (1) Articles or Papers

	Name	Title	Name of the journal wherein published with month of publication
1	Dr. J. S. Dave and Dr. A. M. Talati	(i) Estimation of copper by B. Dioximino Aceto Acetanilide	Journal of Indian Chemical Society, 1959, Vol. 36, page 830



Name	Title	Name of the journal wherein published with month of publication
(ii)	Estimation of Nickel and Palladium by B. Dioximino-acetoacet-Toluidide	Journal of Indian Chemical Society, 1959, Vol. 36, page 735
(iii)	Estimation of Palladium by B. Dioximino-acetoacet-chloranilide	Journal of Indian Chemical Society, 1959, Vol. 36, page 838
(iv)	Estimation of copper and Nickel by B. Dioximino-acetoacet-chloranilide	Journal of Indian Chemical Society, 1960, Vol. 37, page 40
(v)	Estimation of copper by Dioximes	Proceeding Symposium Co-ordination Chemistry, 1959, Part III, page 232
(vi)	Metal Chelates of some new Diomimco	Proceeding Symposium Co-ordination Chemistry 1959, Part I, page 135
(vii)	Absorption spectra of oximes	Journal of Chemical Society (England), 1960, page 900
2	Dr. A. M. Talati Interference corrections	Journal of Indian Chemical Society, 1959, Vol. 36, page 743
3	Shri H. H. Majmundar The Petrography of the Rock types occurring in the areas around Chhuchhapura and Songir, Baroda District	Journal of the M.S.U. Baroda, Vol. VIII 2, 1959

## 9. Literary, Cultural and Other Activities

### (1) A Literary Association functions in this Faculty :

Lectures and talks on various subjects of general and engineering interest by prominent persons are arranged by this Association for the benefit of the students and the staff.

In order to develop the art of speaking amongst the students, debates are also arranged. The students of this Faculty took part in various Inter

Faculty, Inter University and other debating elocution contests. The Faculty students have won various prizes and trophies in some contests. One teacher and one student of the Faculty participated in the Art Exhibition, 1960 organised by the Bombay State and won prizes of Rs. 1,000/- and Rs. 150/- respectively.

### (2) The Student's Chapter (The Institution of Engineers [India] ) :

The Student's Chapter started functioning during the academic year with 189 students as members of the Chapter. Under the auspices of the Chapter and the Literary Association the following lectures were delivered :

Speaker	Subject
Shri N. K. Patel, Executive Engineer ( Ukai Division ) Tapi Construction Circle, Surat Professor ( Dr. ) Ing. E. Schultze	Floods in Surat   Soil Mechanics Institute ( Teaching, research and consulting work on sub-soil condition and foundations )

The Chapter also organised an industrial visit to Jyoti Limited, Baroda.

### (3) Seminars :

Generally the students of the final year degree and diploma classes take part in seminars. Students prepare and read papers on a selected theme relating to the subjects of their study and actively participate in the discussions. Fortyone seminars were held during the year.

(4) The Annual Faculty Day was not celebrated during this year on account of the sad demise of Professor D. Subba Rao, Dean of the Faculty.

## 10. Co-curricular Activities

### (1) Excursions and tours :

Students of B. E., T. E., B. Text. Engg., B. Text. Tech., T. Text. Engg., T. Text. Tech., Architecture II, III and IV year degree classes and all the final year diploma classes, and Geology and M. E. ( Public Health ) students were sent out on educational tours to places of particular interest



in their respective branches of study, the period in each case extending to about two weeks.

(2) *Exhibition of educational films :*

This year the Faculty has a stock of 16 films of various subjects of educational interest and also 14 strips of 35 m.m. films. Every year additional films are taken on loan for use from organisations like the British Information Service, the United States Information Services, Burma Shell, Visual Aid Department of the Bombay State and Films Division, Ministry of Education, Government of India, New Delhi. In all 21 films were shown at the Faculty during the year.

(3) *Publication of Faculty Magazine :*

The Faculty Magazine was published during the session 1959-60.

(4) *Dramatic and Music Association :*

This year the Association participated in the Inter Faculty Competitions held by the University Week Celebration Committee. The Association also took part in Drama and Group Song.

(5) *Co-operative Stores :*

The working of the store was satisfactory. In addition to the sale of articles for the normal use of an engineering student, the Faculty after great effort could procure the Import Licences for foreign goods. Thus foreign articles like Wattsman Paper, Slide Rules, etc. are available to students at prices 50% below the market price. The total sale during the year amounted to Rs. 13,000/-.

## 11. Tests and Class Work

Attendance at the terminal examination, tutorials, 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 the 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 each subject ( 20% for class tutorials records, etc. and 10% to be awarded for *viva-voce*, etc. ) for degree classes and 20 % of the maximum marks for examination in each subject for diploma classes.

## 12. Other Important Events

( 1 ) The following were the distinguished visitors to the Faculty :

- 1 Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India, New Delhi
- 2 Dr. Le Baron, Dean, Iowa State College, U. S. A.
- 3 Miss Ellen Molline, Home Economics Adviser to the Ford Foundation, U. S. A.
- 4 Professor ( Dr. ) Ing. E. Schultze of the Technische Hochschule ( University of Technology ) Aachen, Federal Republic of Germany.



## CHAPTER XIV—FACULTY OF FINE ARTS

### 1. Brief History

The Faculty of Fine Arts started working from July, 1950. In May, 1949 an organiser was appointed to make preliminary arrangements. He visited 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 in Fine Arts were approved, necessary books, furniture and equipment were purchased and some staff was also appointed. The Faculty started admitting students from July, 1950. The post-graduate courses in the Faculty were started from June, 1954.

### 2. Buildings

The Faculty is located in Pushpa Bag on the University Road. It comprises of (1) The old building, (2) Painting and Applied Arts studios, (3) Sculpture studio, cellar for Pottery and Ceramics, Bronze casting shed, Stone carving shed, (4) Process and Block-making Workshop, (5) Exhibition Hall and (6) New Block.

### 3. Courses of Studies

The Faculty offers the following courses :

(1) Post-graduate Degree Course 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 Course in (a) Painting, (b) Sculpture and (c) Applied Arts.

(4) Degree Courses in (a) Painting, (b) Sculpture, (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, (f) Pottery and Ceramics and (g) Printing.

### 4. Number of Students

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

Class	Men	Women	Total
(1) Certificate			
First year	8	3	11
Second year	6	1	7
	<hr/> 14	<hr/> 4	<hr/> 18
(2) Diploma			
First year	15	3	18
Second year	17	3	20
Third year	5	1	6
Fourth year	8	—	8
	<hr/> 45	<hr/> 7	<hr/> 52
(3) Post-Diploma			
Junior	2	—	2
Senior	—	—	—
	<hr/> 2	<hr/> —	<hr/> 2
(4) Degree			
First year	26	4	30
Second year	14	7	21
Third year	10	—	10
Fourth year	19	2	21
	<hr/> 68	<hr/> 13	<hr/> 82
(5) Post-graduate Diploma			
Junior	2	—	2
Senior	4	—	4
	<hr/> 6	<hr/> —	<hr/> 6
(6) Post-graduate Degree			
Junior	5	—	5
Senior	1	—	1
	<hr/> 6	<hr/> —	<hr/> 6
Grand Total :—	142	24	166

### 5 Staff

During the year, the staff consisted of 3 Professors, 3 Readers, 16 Lecturers, 1 Head, Department of Museology, 1 Honorary Professor,



1 Part-time Instructor, 2 Demonstrators, 1 Tutor, 1 Printer, 2 Technicians, 1 Technical Assistant, 1 Taxidermist, 1 Part-time Photographer, 6 Class III and 15 Class IV Servants.

### 6. Library

Sr. No.	Particulars	Number
1	Average number of students making use of the Library and Reading Room daily.	40
2	Average number of teachers making use of the Library and Reading Room daily.	20
3	Total number of books used by the students during the year.	1,200
4	Total number of books issued to teachers during the year.	900

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

Sr. No.	Particulars	Number	Cost in Rs.
1	Books (including back numbers of Journals) as on 1-7-1959	3092	43,398-90
2	Books written off during the year	—	—
3	Books and Plates added during the year	85	2,510-93
4	Books and Plates as on 31-3-1960	3177	45,909-83
5	Journals subscribed during the year	32	712-95
6	Amount spent on binding during the year	—	261-12
7	Total amount spent for the Library and Reading Room during the year	—	3,485-50

### 7. Museums, Laboratories, Studios, Workshops, etc.

Sr. No.	Item	Cost of equipment as on 1-7-1959	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1960
1	Studios, Workshops, Painting, Sculpture, Applied Arts etc.	94,144.13	—	5,398.75	99,542.88
2	Museology	4,552.91	—	2,181.16	6,734.07
	Total :	98,697.04	—	7,579.91	1,06,276.95

### 8. Literary, Cultural and other Activities

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

Sr. No.	Name	No. of Lectures	Subject
1.	Shri K. K. Hebbar, Bombay	3	Painting Composition
2.	Shri N. G. Pansare, Bombay	3	Sculpture, Life, A Head Study
3.	Shri R. S. Mani, Bombay	2	Window Display
4.	Shri C. N. Parmeshwaran, Bombay	1	Printing, Typography
5.	Shri D. P. Ghosh, Head, Department of Museology, University of Calcutta, Calcutta	2	(a) The Museology course in India, its organisation and importance (b) Some important aspects of Indian Art History
6.	Dr. K. N. Puri, Assistant Director, National Museum of India, New Delhi	3	(a) Some good examples of Foreign museums (b) Exhibitions—their organisations and educational importance (c) The problems of the National Museum of India
7.	Dr. Motichandra, Director Prince of Wales Museum, Bombay	2	(a) Cataloguing and indexing of Museum exhibits (b) Importance of research and publications in Indian Museums
8.	Dr. S. T. Satya Murti, Superintendent, Government Museum, Madras	3	(a) Administrative problems of the Indian Museums (b) Office methods and preparation of Museum Budget (c) Special bodies related to Museum and Museum work
9.	Dr. Satyaprakash P. Srivastava, Director of Archaeology and Museums, Rajasthan, Jaipur	2	(a) My impressions about the Museums of the West (b) Latest developing in Museum technique and Museology



### 9. Co-curricular Activities

(1) The Faculty arranged two study tours—one to Bombay and the other to Delhi for the Applied Arts Department and one to Patadakal and Ahihole for the rest of the students.

(2) The Department of Museology arranged the annual Study Tour to North India from the 13th to the 28th February, 1960. The Post-graduate students under the guidance of a staff member visited Museums at Delhi, Lucknow, Mathura and other places.

(3) Shri Vishnu Kumar Bhatt gave a series of three lectures on Indian Art at Mathura Museum.

(4) Professor L. B. Shastri gave two lectures on Indian Aesthetics at the Annual Celebrations—function of the Art Society of India.

(5) The following five exhibitions were held during the year in the Faculty :

(a) An exhibition of the Prints of the works of "Vangogh and Rembrandt" was held from the 22nd to the 29th July, 1959;

(b) An UNESCO Travelling Exhibition of Water Colour Prints was held from the 14th to the 18th August, 1959;

(c) An exhibition of Prints of "Twentieth Century lights of American Paintings representing the most vigorous and creative period of American Art" was held from the 12th to the 15th September, 1959.

(d) A special exhibition of the works of the students and members of the staff of this Faculty was held from the 1st December to the 31st December, 1959. The exhibition was highly praised by the members of the Vice-Chancellors' Conference which was held at Baroda during this period.

(e) An UNESCO exhibition of American Architecture was held in the month of January, 1960;

(f) The Department of Museology arranged several exhibitions in the Department and the special Exhibition Hall of the Baroda Museum. The more interesting and popular exhibitions were (i) Toy Exhibition, (ii) Wild Life Presentation Week Exhibition and (iii) Exhibition of Modern Art Paintings.

### 10. Other Important Events

(1) *Distinguished Visitors*

(a) The following distinguished visitors visited the Faculty during the year.

Name	Date of Visit
1 Professor Humayan Kabir, Minister for Scientific Research and Cultural Affairs, Government of India, New Delhi	16-8-1959
2 Dr. A. M. D. Rozario, Joint Educational Adviser to the Government of India, Ministry of Scientific Research and Cultural Affairs, New Delhi	21-12-1959
3 Professor Ben Morris, Professor Elkossy, Professor F. Irwin, Professor McNeill, N. I. E. F. Team of Educationalists	8-1-1960
4 Shri Ahmed Mohiuddin, Deputy Minister for Civil Aviation, Government of India, New Delhi	6-2-1960
5 Dr. B. Gopal Reddy, Minister for Revenue and Civil Expenditure Government of India, New Delhi	29-3-1960
6 Mr. Richard W. Brooks, Indian Languages Scholar from America	3-4-1960

(b) *The department of Museology received the following distinguished visitors during the year :*

Name	Date of Visit
1 Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India, New Delhi	16-8-1959
2 Shri T. S. Bharde, Minister for Co-operation, Bombay	21-8-1959
3 Professor A. L. Bhasham, University of London	21-10-1959
4 Mr. Douglas Bannel, Deputy Keeper, British Museum	10-12-1959
5 Dr. M. S. Randhwa, Vice-President, Indian Council of Agricultural Research, New Delhi	11-12-1959
6 Dr. S. Mathai, Secretary, University Grants Commission, New Delhi	19-12-1959
7 Dr. A. M. D. Rozario, Joint Educational Adviser to the Government of India, Ministry for Scientific Research and Cultural Affairs, New Delhi	21-12-1959
8 Shri S. V. Sirke, Government Equipment for India, Ootacumund	20-1-1960
9 Shri M. L. Roonwal, Director, Zoological Survey of India, Culcutta	9-2-1960



(2) Ten students and one teacher of the Painting Department and four students and two teachers of the Sculpture Department won prizes in various exhibitions, shows and competitions ;

(3) Out of five National Awards awarded this year, three were won by the students of this Faculty :

- ( i ) ~~Kumari N. Dalal~~, *Shri N.M. Patel.*
- ( ii ) ~~Shri Sumant Shah~~, *Shri R.R. Panchal.*
- ( iii ) Shri Himatlal Shah.

(4) Works of 2 ex-students and 3 students of the Faculty were acquired by the Lalit Kala Akademi and the Government of India for the collection of National Art Gallery.

(5) The Faculty participated in the Pottery and Graphic Art Exhibition held at Bombay from the 26th February to the 3rd March, 1960. 90 Pottery pieces and 30 Graphic Art prints were exhibited by the Faculty of which about 80 pottery pieces and 3 graphic prints were sold at the cost of Rs. 700 and Rs. 150 respectively.

## 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. This Trust appointed in May, 1949, an organiser for the College, and in July, 1949, a Nursery School was started with 50 children on the roll. The University took over the fund and established 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 instruction for the Master's Degree from June, 1955 in ( i ) Foods and Nutrition and ( ii ) Child Development.

The Home Science Wing, which was started from the 18th June, 1956 is attached to the Faculty. In November, 1957 the new section of Kindergarten was started in Chetan Balwadi. The Post-graduate Diploma Course in Nursery School Education was started from July, 1959.

### 2. Buildings

The new building completed at the cost of Rs. 6.59 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 canteen and an auditorium with seating arrangements for 300 persons. Chetan Balwadi ( a nursery school attached to the Faculty ) is accommodated in the west wing on the ground floor.

The Maharani Shanta Devi Home Management House was constructed in the compound of the Faculty at a cost of Rs. 64,000. In 1957, the new department of Clothing and Textiles was constructed over the west wing at a cost of Rs. 54,500. A new Home Management House is constructed this year at a cost of Rs. 16,000.

### 3. Courses of Studies

There is provision for the following courses :

- ( 1 ) B.Sc. ( Home ) and M.Sc. Foods and Nutrition Child Development  
( Home ) ment



- (2) B.Sc. ( Home )      Economics of Household and Home Management, Home Science Education and Extension, Clothing and Textiles
- (3) Post-graduate Diploma      Nursery School Education

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 the students with the different phases of Home Science. In the fourth year the students have to select any one out of the five fields of specialisation.

#### 4. Number of Students

The number of students enrolled in various classes at the commencement of the year 1959-60 is as under :

Class	Number	
(1) B. Sc. ( Home )		
First year	119	( Including advance and non-Collegiate students )
Second year	72	
Third year	45	
Fourth year	52	
Total :	288	
(2) Post-graduate Diploma in Nursery School Education	8	
(3) M. Sc. ( Home )		
Junior	7	
Senior	4	
Total :	11	
Grand Total :	307	

#### 5. Staff

The staff of the Faculty consisted of 1 Professor, 2 Readers, 9 Lecturers, 9 Demonstrators, 2 Tutors, 1 Full-time and 1 Part-time teachers, 9 Class III and 15 Class IV servants. The Faculty continued to receive the help of the staff of the other Faculties for teaching various courses.

#### 6. Library

The Faculty has a well-equipped library and reading room and subscribes to a number of professional journals and periodicals. The library remains open from 8.00 a.m. to 6.00 p.m. on all the working days. The following figures show the average attendance of the students and circulation of books :—

S. No.	Particulars	Numbers
1.	Average number of students making use of the library and reading room daily	25
2.	Average number of teachers making use of the library and reading room daily	5
3.	Total number of books issued to students during the year	2,400
4.	Total number of books issued to teachers during the year	150

The following figures show the stock and expenditure on the maintenance of the library and reading room during the year 1959-60 :—

Sr. No.	Particulars	Number	Cost in Rs.
1	Books including back numbers of journals as on 1-7-1959	5,925	46,233=75
2	Books written off during the year	—	—
3	Books added during the year	318	3,897=12
4	Books as on 31-3-1960	6,243	50,130=87
5	Journals subscribed to during the year	44	856=71
6	Amount spent on binding during the year	—	474=30
7	Total amount spent for the library and reading room during the year	—	5,228=13

#### 7. Museum, Laboratories and Workshops

The Faculty started a collection of articles for the museum. Most of the articles are at present kept with the departments and will be shifted to the main Faculty Museum.

The Department of Child Development was given a large collection of toys by friends and well-wishers of the Faculty for the Toy Museum of the Balwadi.



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

Sr. No.	Item	Cost of equipment as on 30-6-1959	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment etc. as on 31-3-1960
		Rs.	Rs.	Rs.	Rs.
I	Museum, Laboratories and Workshops	2,16,089=60	Nil	11,390=02	2,27,479=62

### 8. Literary, Cultural and Other Activities

The Department of Home Science Education and Extension arranged several lectures and demonstrations on various topics for different economic groups. This year, these demonstrations were held in different localities of the city and a large number of women attended these demonstrations. Some members of the staff were sent as delegates to various conferences where they read papers and participated in discussions.

### 9. Co-curricular Activities

(1) The Department of Child Development, Home Management and Foods and Nutrition arranged educational tours to different places of interest and studies.

(2) Students of the Faculty participated in Inter-Faculty debates, games, group-songs, group-dances 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 lectures for members of the Parent-Teacher Association.

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

(6) Seminars, Workshops and Exhibitions :

(i) The Chetan Balwadi celebrated the 10th Anniversary of the Balwadi and the Department of Child Develop-

ment organised a seminar and a series of lectures by a few prominent people in the field of Child Development.

(ii) The Department of Foods and Nutrition arranged a Workshop in Food Preservation. Miss Dorothy Lions, a T. C. M. technician helped by giving several demonstrations. The Workshop was attended by several teachers and home-makers of the town.

(iii) The Department of Home Science Education and Extension organised a Seminar-cum-Workshop in Extension Methods and Techniques. Miss Ellen Moline, Home Economics Advisor to the Ford Foundation, conducted the workshop for a week. The Instructress of the Home Science Wing, staff members of the Social Education Organisers' Training Centre and the Principal and staff members of the Extension Training Centre, Baroda participated in the Workshop.

(iv) The Department of Child Development organised a Toy Exhibition during the University Week. This was declared open by Matushri Maharani Shanta Devi Gaekwad.

(v) The Department of Clothing and Textiles arranged an exhibition during the week and Dean LeBaron of the Iowa State University inaugurated it. Many teachers, students from schools and citizens of Baroda turned out to see the Exhibition.

### 10. Tests and Class Work

The Faculty follows the system of Grade-credit to assess and evaluate the work of the students in all theory and practical classes. Every teacher maintains a diary or a class-record in respect of each student taking the course. The student's performances during a term in the subjects areas of practical, tests, regular assignments, term-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 counted as half the total grades for the term. The advisory system adopted by the Faculty has helped the students with their scholastic and personal problems.



### 11. Other Important Events

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

- 1 Delegation of Cambodian Educationists
- 2 Shri Gaganvihari L. Mehta
- 3 Shri Ahmed Mohiuddin, Deputy Minister for Aviation, Government of India
- 4 Professor S. Radhakrishnan, Vice-President of India

### 12. Chetan Balwadi

This year the Chetan Balwadi celebrated the completion of its 10th year. On this occasion a symposium on "The Pre-School Child" was held. A Children's Carnival was also arranged on this occasion. Past pupils of the Balwadi were also invited. Nearly 300 children participated in the celebration.

There were 60 children in the Nrusery school and 25 children in the kindergarten. A full time Social Worker was appointed and she helped the students, teachers as well as parents to understand their difficulties. The Parent-Teacher Committee was very active this year. Many parents came to observe the activities and helped the teacher in the Balwadi routine. Discussions on Reports of children with the parents were encouraging. The Committee arranged some discussion meetings, talks, demonstrations and social gatherings. An excursion to Ahmedabad for the children was arranged. They visited there Balghar, the Children's Park and the Zoo.

Two teachers of Chetan Balwadi attended the Conference of Nutan Bal Shikshan Sangh at Ahmedabad. The teachers contributed articles to the "Nutan Shikshan Patrika" from time to time.

### 13. 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 rural areas 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 such 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 Niwas. Necessary additions and alterations were made at a cost of over Rs. 50,000 for providing a training hall with class rooms, laboratory, administrative office and residential 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. This year the fourth batch has 25 trainees who have joined in October, 1959 and who will be completing the course in September, 1960. All the trainees who have successfully completed the training have been posted in different Development Blocks of the State Government. 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-gardening, 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 Cultural programmes, study tours, village camps and celebrated the Independence Day and other festival days.



## CHAPTER XVI—FACULTY OF SOCIAL WORK

### 1. Brief History

The Baroda School of Social Work was started in March, 1950 to train professional social workers on the lines of scientific knowledge available in the field. It started functioning from July, 1950 and was a part of the Faculty of Arts. In March, 1951 the School was recognized as a separate Faculty under the University leading to the degree of Master in Social Work ( M. S. W. ).

The Rural Work Centre at Atladra was established in 1950 to give experience to students in rural set-up and one more village, Bil, was added within a period of one year. The Centre at Atladra is discontinued, and instead, another centre at village Tandelja is established.

The Camp Road Community Welfare Centre was organized in the Camp Area in 1950 for offering field work training facilities to students available in community welfare area and serving the needs of the community.

The Mental Hygiene and Psychiatric Clinic was started in July, 1952 in Shri Sayaji General Hospital, Baroda with a view to serve a public need and also to offer field work facilities to students of the Faculty.

The Social Education Organizers' Training Centre was started in January, 1955 at Samiala, which is about eight miles away from Baroda.

### 2. Buildings

The construction work of the new building of the Faculty was completed during the year at a cost of Rs. 3,24,036-52 and it was inaugurated by Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India, on the 15th August, 1959. The accommodation in the new building is sufficient to meet the present needs of the Faculty.

### 3. Courses of Studies

The Faculty provides instruction in a two year post-graduate course leading to the degree of Master of Social Work ( M. S. W. ). The curriculum of the course 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 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. Twentyfive agencies have been co-operating with the Faculty in offering valuable practical training to the students.

( 2 ) *Rural Work*: In order to help the students interested in rural development work, the Rural Work Department of the Faculty is running two centres one at Bil village and another at Tandelja Village. The field work programme at Bil is being carried on for the last 8 years. It has been providing adequate opportunities for the students to learn various techniques of social work as applied to rural welfare. A batch of 6 students worked there during the last year. The main activities carried out under the programme were Recreation and Social Education programme among children and adults of both the sexes, medical services to the community, cultural and community development programmes.

( a ) Recreational and Social Education programmes consisting of games—indoor and outdoor—folk songs, film shows, excursions and picnics, talks and discussions on various topics of general interest were carried out. During the course of the year, the children of the village staged two variety entertainment programmes. The youths of the village staged two plays.

( b ) *Medical Services*: The dispensary in the village continued to provide medical services to the community. An average daily attendance of 20 patients was recorded during the year. The fund-raising campaign was also continued by the trustees of the dispensary and by March, 1960 they had collected about Rs. 3,500/- against a target of Rs. 10,000. The Baroda Branch of the Indian Conference of Social Work donated medicines worth more than Rs. 200 to the village dispensary. A special medical check-up programme was organised for children and women and with the follow-up work the members were helped to take medical treatment as per doctors' recommendation either at the village dispensary or at Shree Sayaji General Hospital, Baroda. A special programme for the benefit of pregnant ladies is being conducted through which they are being educated about pre-natal and ante-natal care in a scientific manner. In order to give practical demonstration about health and hygiene to the villagers the



panchayat is contacting Primary Health Centre at Padra to organise health exhibition in the village.

(c) *Community Development*: The Panchayat in Bil has taken up the work of construction of approach road, electrification of the village, street lights and water works. In order to help the village to be conscious about planning, a five year plan for the village is being formulated with the help of the village leaders. The Cooperative Society was helped to take up other activities *i. e.* starting of consumers store in addition to the one connected with supply of credit to the members. At the time of the floods in Surat, the village collected about 30 maunds of grain for the flood-stricken people.

The Field Work programme in Atladra village was stopped with the beginning of the academic year 1959 and a new centre at Tandelja village was started in August, 1959. This village has a mixed population of Hindus and Muslims. It is selected as an agency for field work programme after assessing its potentialities. Two senior students worked in the agency during the last year. The main activities carried out under the programme were mainly social education activities for the youth and community development programmes for the community.

Social education consisted of outdoor games, discussions on various topics of general interest, songs, bhajanas, drama and picnics. Seven film shows were also arranged during the year.

The village people were helped in securing Tagavi loan from the Government. The Panchayat has been also persuaded to make provision of Rs. 2,000 in their next year's budget, for repairing the approach road.

(3) *Camp Road Community Welfare Centre*: The Camp Road Community Welfare Centre has increased its capacity to provide field work placements to nine students. The centre functions as a community welfare agency providing services to men, women and children. During the year recreational group activities subsidiary diet and nutrition programmes, film shows, social education groups and community contacts were carried on. There has been a considerable increase in the average daily attendance of the members at the centre as well as in the number of children availing of the nutrition programme. 70 new books were added at the library of the centre making the total stock of 560 books. 8 film shows were also arranged by the centre. Visits to various agencies,

entertainment programmes, celebration of festivals like 'Kite Flying', Republic Day, Faculty Agency Day, Picnics and Childrens' Art Competitions were organised.

(4) *Mental Hygiene and Psychiatric Clinic*: During the year the clinic rendered services to a total of 276 patients. Out of these 276 patients, 214 were new patients received during the year and the other 62 patients were carried over from the previous years. A total of 24 university students also availed of the services during the year. From the beginning of the clinic in July, 1952 to March, 1960, the clinic registered 1942 patients.

The clinic provided field work training to three students of the Faculty. Besides providing training in case-work treatment the students had the opportunity of active work with the community.

The first exploratory report 'Identifying Social Work Potential—Through Projective Tests' was published. Pamphlets about the services of the clinic and the need of the school teachers and the clinic working together for improving the mental health of the children, were also published.

A team of one senior psychiatric social worker, two psychiatric social workers, a clinical psychologist, a part-time physician and three students of the Faculty were active in the clinic work. The psychiatric students carried an average case load of 30 active cases each. After the initial financial help from the Jean and Howard Norman Trust for five years on yearly percentage basis, the clinic, since the beginning of this year, was completely supported by the M. S. University of Baroda. This year the Department of Public Health of the Government of Bombay extended a grant-in-aid totalling to Rs. 11,807 to the clinic for the year 1959-60.

(5) *Study Tour and Camps*: 22 senior students accompanied by two staff members went on study tour to Hyderabad from the 20th December, 1959 to the 4th January, 1960. They visited various social work institutions and also attended the Indian Conference of Social Work which met in December, 1959 at Hyderabad.

#### 4. Number of Students

The number of students enrolled at the commencement of the year 1959-60 was as under:



Class	Men	Women	Total
M. S. W. Junior	22	7	29
M. S. W. Senior	23	10	33
Total :	45	17	62

### 5. Staff

(a) The staff of the Faculty consisted of 2 Readers, 6 Lecturers, 3 Part-time Lecturers, 7 Class III and 7 Class IV servants.

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

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

### 6. Library

The Faculty has a well-equipped library having over 4277 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 1959-60 :

S. No.	Particulars	Number
1.	Average number of students making use of the library and the reading room	55
2.	Average number of teachers making use of the reading room daily	8
3.	Total number of books issued to students during the year	7750
4.	Total number of books issued to teachers during the year	2,525

The following figures show the stock and the expenditure on the maintenance of library and reading room during the year 1959-60 :

S. No.	Particulars	Number	Cost
1.	Books including back numbers of Journals as on 1-6-1959	4142	30,721-82
2.	Books written off during the year	Nil	—

S. No.	Particulars	Number	Cost
3.	Books added during the year	135	1,986-74
4.	Books as on 31-3-1960	4277	32,708-56
5.	Journals subscribed during the year	53	913-10
6.	Amount spent on binding during the year	—	141-74
7.	Total amount spent for library and reading room during the year	—	3,041-58

### 7. Publications by members of the staff

The following papers of the members of the staff were submitted for publication during 1959-60 :

Sr. No.	Name	Title	Where published
1	Shrimati Indra S. Tayal	( i ) Urban Community Development	Souvenir Book, Urban Community Development, Indian Conference of Social Work, December, 1959
		( ii ) Social Work Training in Asia	Social Work, Review, Faculty of Social Work, 1959
2	Kumari V. S. Telang	The Problem of Prevention of Prostitution and Immoral Traffic in Women and Children	Submitted at the 7th All India Conference of the Association for Social and Moral Hygiene in India, held at Chandigar in October, 1959

### 8. Literary, Cultural and Other Activities

The staff members participated in the wider field of social work. In addition to their varied responsibilities and duties at the Faculty, they have taken active interest in the development of the field at large. They have also participated in various national conferences and in the community by giving talks on the Radio and in civic clubs.

### 9. Co-curricular Activities

( 1 ) *Study Tour* : The staff members are provided opportunity to visit sister institutions to keep in touch with developments in the field as well as to promote closer contact and public relations.



(2) *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. Every year they add a small amount from the collection received from the members of the staff and students of the Faculty. The sum is set aside for rendering assistance to the needy students of the Faculty. So far eighteen students have availed of this facility.

(3) *Debates' talks etc.*: The students participated in the Vice-Chancellor's Trophy Debate when one student received the 2nd individual prize and another won a consolation prize in Pro-Vice-Chancellor's debate. One student won the 1st prize in the All India Inter-University Debate held by the Rotary Club of Baroda. One debate and two talks were also arranged in the Faculty. Some students participated in University Youth Festival Programme, Planning Forum activities and social functions of the Faculty.

(4) *Film shows*: Some films covering subjects taught in classes, obtained from foreign embassies and other bodies, were shown to demonstrate certain aspects of technical subjects.

(5) *Lectures by local persons*:

The Faculty invited the following local persons to deliver lectures to the students during the year:

Sr. No.	Lecturer	Subject	Date
1	Shri Rustom Patel, Home Inspector, Baroda	Need for Co-ordination between the Police and the Social Worker for betterment of Society	16-12-1959
2	Shri B. Z. Chavan, District Social Welfare Officer, Baroda	His role as a Social Welfare Officer	18-12-1959
3	Shri G. B. Thakar, Chief Officer under Bombay Probation and Offenders' Act, Baroda	Work under Bombay Probation and Offenders' Act	16-3-1960

Sr. No.	Lecturer	Subject	Date
4	Shri J. V. D. Macwan, Labour Welfare Officer, Sarabhai Chemicals Ltd., Baroda	Use of Case Work Technique in the field of Labour Welfare with special reference to Labour Welfare Officer as a functionary	24-3-1960
5	Shri K. C. Patel, Baroda District Project Officer, Baroda	The Development activities being carried out by the Community Development Blocks in Baroda District and the effect they have on the life of the people	27-12-1959

(6) *Magazine*: The Faculty Magazine has now taken the shape of a Journal known as the 'Social Work Review'.

#### 10. Tests and Class Work

The method of teaching adopted in the Faculty lays emphasis on class participation of students, and 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 experience; 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 a close supervision of the students' day-to-day progress.

#### 11. Other Important Events

(1) The Faculty is conducting research on "Problems of Working Mothers in Baroda City" on behalf of the University Grants Commission, New Delhi, and the work is in the last stage of completion.

(2) The following were some of the distinguished visitors to the Faculty and the Social Education Organisers' Training Centre during the year under report:



<i>Name</i>	<i>Date of visit</i>
1. Mr. B. Y. Owusu, Ghana Community Development Officer	24-8-1959
2. Mr. Woodman and Mr. Quinn, Officers of the Ford Foundation	21-9-1952
3. Miss Mary Niles, Management Writer and Consultant in Mary Land, Baltimore	14-10-1959
4. Mr. J. A. A. Salaam, Principal of Community Development Scheme, Ghana	24-10-1959
5. Delegation of Cambodian Educationists	21-11-1959
6. Mr. Pathik, All India Mass Education Society, U. P.	9-12-1959
7. Mr. Earnest Dale, Officer of the Ford Foundation	1-2-1960
8. Dr. B. Gopala Reddi, Minister for Revenue and Civil Expendi- ture, Government of India	29-3-1960

(3) *Alumni Association*: The Alumni Association continued to give information and counsel to graduates regarding job and other problems. During this year the association published its first official Bulletin, "The Knot". The following figures will show the employment situation of the Alumni.

<i>Field of employment</i>	<i>No. of Graduates</i>
1 Labour Welfare	54
2 Medical and Psychiatric Social Work	14
3 Correctional Administration	8
4 Public Welfare	4
5 Rural Welfare and Community Development	11
6 Family and Child Welfare	2
7 Research	6
8 Social Work Education	18
9 Non Professional fields	2
10 Unemployed	4
11 No information	8
12 Miscellaneous	5

Total .. 136

## 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 receives 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 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. 122 men and 104 women had been trained upto the year 1958-59.

During the year 1959-60 it is converted into a Centre of training the Mukhya Sevikas only. This year 27 trainees were admitted to the course which is of about 11 months' duration. The training consisted 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 the trainees did field work, village work, held village camp at Madhi Ashram, Surat District. The trainees went on study tour of the N. E. S. Block, Aurangabad and also visited different Social Welfare Agencies in Baroda to study the problems attached to them.

Some of the members of the staff attended the seminars and conferences at Hyderabad, Dakor, Gargoti and New Delhi.

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.



## 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 an independent institution. It was called as Oriental Institute and placed in charge of a Director with 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. Building

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 re-organization of the Ramayana Department was made and a separate section in the Oriental Institute with the General Editor as its Head was formed the 1st April, 1958. Professor G. H. Bhatt, M.A., was appointed as the General Editor and Head of the Ramayana Department, and Professor B. J. Sandesara, M.A., Ph.D., Head of the Gujarati Department was appointed as the Director of the Oriental Institute from the 1st April, 1958. Professor Sandesara also continued as a Head of the Gujarati Department in the Faculty of Arts.

During the year, the staff consisted of 1 Director, 1 Deputy Director, 3 Research Officers, 7 Class III and IV Class 4 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, 2 Class III and 2 Class IV Servants.

### 4. Work of the Institute

The main work of the Institute is research and publications of unpublished important works carried on with the help of a very big collection of manuscripts and the collection of printed books on 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 Gramavikasamala
- (10) Matushri Jamnabai Smarak Granthamala
- (11) Shri Shishujnanamala

### 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 for guiding M. A., and Ph. D. students. The Director, the Deputy Director and the Head of the Ramayana Department and a Research Officer guided Ph. D. students in Sanskrit, Gujarati, and Ancient Indian Culture and also took 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 ) *Manuscripts Section :*

This section had already a collection of 17,482 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages, of which 3,109 were added during the year. Out of these, 56 were purchased and 3,053 were received as gift.

During the year, 8 manuscripts were lent to outside institutions, 765 were issued to different scholars for work on the permises of the Institute, while 4 were borrowed from outside institutions.

The Manuscripts collection of the Oriental Institute is being added to every year. It includes several manuscripts of historic value. The collection includes manuscripts in almost all the scripts of India as well as in Persian and [Arabic. The collection of the Oriental Institute can easily be developed as an archival collection of national importance.

( 2 ) *Printed Books Section :*

This section has a collection of 22,230 books of the value of Rs. 2,02,413 approximately, of which 758 books were purchased during the year at the cost of Rs.6,692 and 108 books received as gift and on exchange basis. The Library also provides 160 journals for reference. On an average 45 teachers and 50 students made use of the Reference Section of the Institute. The Library is built as a Reference Library, known as the Oriental Printed Section, and is under supervision of the University Librarian.

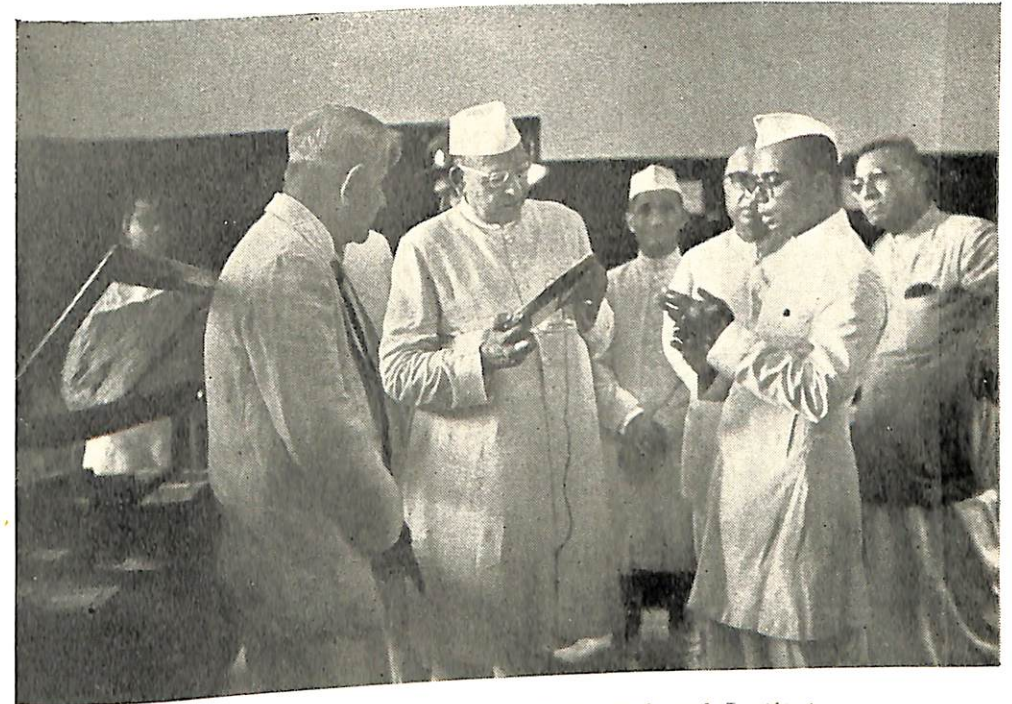
**7. Gaekwad's Oriental Series**

Editing and publication of the Series is one of the main activities of the Institute. Uptil now 131 volumes have already been published under this Series. During the year, the following works were published :

- ( 1 ) GOS No. 48 Natyadarpana—a revised edition by Pandit I. B. Gandhi
- ( 2 ) GOS No. 131 Vinalaksana—Vinaprapathaka—by Shri J. S. Pade

The following five works are under print :

- ( 1 ) Mansollasa Vol. III by Shri G. K. Shrigondekar
- ( 2 ) Vaisesika Sutra with vrtti of Chandrananda by Muni Jambuvijayaji



Governor Shri Sri Prakash at the Oriental Institute



- (3) Pada-Index of Ramayana by Professor G. H. Bhatt
- (4) Natyasastra of Bharat, Vol. IV. This work is delayed as it is under revision by Shri J. S. Pade.
- (5) Ullagharaghava by Professor B. J. Sandesara, and Muni Shri Punyavijayaji.

The sale proceeds of books (inclusive of G. O. Series, M. S. University Research Series, M. S. University Oriental Series, Publications of the Departments of Archaeology and Ancient History and of Gujarati of the Faculty of Arts and subscription to Valmiki Ramayana etc.) amounted to Rs. 16,436-90 nP. upto the 30th November, 1959. Since the University Publications Sales Unit was opened in the M. S. University Press, the sale of all publications was transferred to the Sales Unit from the 1st December, 1959.

#### 8. Translation Branch

This branch of the Institute carries on the publication work of the books under series nos. 6 to 11 mentioned in para 4.

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

- (1) Shri Sayaji Balajnanamala
  - 1. 'तरवानी कळा' by Dr. R. N. Mehta
- (2) Shri Sayaji Gramavikasamala
  - 1. 'आबादीना मार्ग' by Shri K. M. Vyas
- (3) The Maharaja Sayajirao Memorial Lecture Series
  - 1. Lectures on 'Physiological Variation and Evolution' by Professor J. B. S. Haldane
- (4) Miscellaneous Series :
  - 1. 'हिन्दु वेदधर्म' by the late Dr. A. B. Dhruva  
(Reprint of the first edition)

The following works were in progress :

- (1) Shri Sayaji Sahityamala :
  - 1. 'प्रो. टी. के. गज्जरनी जीवनकथा' by Dr. A. M. Trivedi and others
  - 2. 'आपण विश्व' by Shri Chhotubhai Suthar
  - 3. 'गुजराती भाषाशास्त्र भाग २, खंड-३' by Professor K. K. Shastri
  - 4. 'आपणी खनिज सम्पत्ति' by N. M. Shah
- (2) The Maharaja Sayajirao Memorial Lecture Series :
  - 1. 'Planning and Freedom' by Shri G. L. Mehta



## 9. Ramayana Department

### (1) Collation Section

The collation of the Aranyakanda in Newari and Malayalam manuscript, of the Kishkindhakanda in Sarada, Devanagari, Telugu, Grantha, Malayalam and two Bengali and one Maithili MSS. of the Sundarkanda in Devanagari, Sarada, Telugu, Grantha and two Bengali MSS., and that of Yuddhakanda and Uttarakanda in one Bengali MSS is complete.

### (2) Editorial Section and Publication

The third Fascicule of the Balakanda edited by Professor G. H. Bhatt containing Sargas 51-76 Appendix I (Nos. 1-9) and II Critical Notes and Corrigenda et Addenda was published in March 1960.

The supplement to the 3rd Fascicule of the Balakanda comprising concordance and supplementary Introduction is under print.

The editor of the Ayodhyakanda, Dr. P. L. Vaidya, has constituted the text of the whole of the Randa (Sargas 119). The Critical Apparatus of that Kanda has come upto Sargas 39. (Tentative Press-copies for Sargas 1-24, and rough copies upto Sarga 39).

The editor of the Aranyakanda, Shri P. C. Diwanji, has constituted the text upto Sarga 68 (—vulgate 71).

The General Editor is now supervising the constituted text of the Ayodhyakanda and forwarding it to the Editor for revision.

The Head of the Ramayana Department gave guidance to 7 students for the Ph. D. degree. Of them two have obtained the degree, one is about to submit the thesis and others are at different stages of their work.

## 10. Journal of the Oriental Institute

The Institute regularly publishes a quarterly Journal. During the year Vol. IX Nos. 1-3 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. Other Activities

For Further development of the Oriental Institute a scheme of inviting Visiting Professors was started in the year 1958-59. The following eight lectures by four learned lectures on different subjects were arranged in the Lecture Hall of the Institute during the year under report :

S. No.	Subject	Date/s	Name of the Lecturer
1.	Two lectures on 'Some Aspects of Jaina Canonical Literature'	27-1-1960 28-1-1960	Pandit Dalsukhbhai Malavania
2.	Two lectures on 'Iranian Studies or on Some Aspects of the History of Persia'	5-2-1960 6-2-1960	Professor F. C. Davar
3.	Two Lectures on 'Some Aspects of the History and Culture of Gujarat'	16-2-1960 17-2-1960	Dr. H. G. Shastri
4.	Two Lectures on 'Some Aspects of Prakrit and on Aprabhramsa's Studies'	18-2-1960 19-2-1960	Dr. H. C. Bhayani

Besides, the following three lectures were arranged in the 'प्राच्यविद्या व्याख्यान-माला', an extension lectures Series.

- (1) 'गुजरातनी प्राचीन राजधानीओ' by Professor R. C. Parikh, Director, Sheth B. J. Post-Graduate Research Institute, Ahmedabad.
- (2) 'भारतीय तत्त्वज्ञानमां भागवततुं स्थान' by Professor G. H. Bhatt, General Editor and Head of the Ramayana Department, Oriental Institute, Baroda.
- (3) 'गुजरातना इतिहासतुं संशोधन' by Professor B. J. Sandesara, Director, Oriental Institute, Baroda.

One more lecture was arranged in the Oriental Institute on 'बृहत्संहितामां भौगोलिक सामग्री' by Dr. A. N. Jani, under the auspices of the Place-Name Society.

Further, a scheme of preparing text-books in regional languages has been accepted by the University. The Government of Bombay has sanctioned an interest-free loan of Rs. 30,000 towards the implementation of the scheme. In all ten works are selected under the scheme.

## 12. Publications by the members of the staff

### (1) Articles or papers :

Name	Title	Where published or read
(1) Profesor B. J. Sandessara	(a) Progress of Prakrit and Jaina Studies	Presidential Address of the Prakrit and Jainism Section of the All India Oriental Conference, 20th Session, Bhubaneswar, October, 1959. Reprinted in the Journal of the Oriental Institute.
	(b) एक विषयायात्रा हिन्दी अनुवाद	राष्ट्रवीणा July, 1959 October, 1959 January, 1960



Name	Title	Where published or read
(c)	પ્રાકૃત અને જૈન અધ્યયનની પ્રગતિ	જૈનયુગ October, 1959 January, 1960
(d)	કેશવ હર્ષદ ધ્રુવ-સંપાદક અને ભાષાશાસ્ત્રી	ગુજરાત સાહિત્યસભા પ્રકાશિત-પત્રિકા
(e)	પ્રાચીન સાહિત્યમે ચોરશાસ્ત્ર	'ભારતીય અનુશીલન' (આગ્રા યુનિ. મુનશી અભિનન્દન ગ્રંથ)
(f)	સોમેશ્વરકૃત 'રામશતક' એક સંક્ષિપ્ત પરિચય	'ગીતાધર્મ'—રજત જયન્તી વિશેષાંક
(g)	Lexicographical Studies in Jaina Sanskrit-II Prabandhakosa of Rajasekhara Suri in collaboration with Shri J. P. Thaker	Journal of the Oriental Institute March, 1960

Professor B. J. Sandesara, Director, Oriental Institute was awarded a prize of Rs. 500 by the Government of Bombay for his book 'પ્રદક્ષિણ-પશ્ચિમ અને પૂર્વની વિદ્યાયાત્રા' adjudged to be one of the best books in Gujarati published during the year 1959.

(2) Dr. U. P. Shah, Deputy Director	(a) Girvanapadamanjari and Girvanavamanjari text with introduction	Published in instalments in the Journal of the Oriental Institute, Vol. VII, No. 4 Vol IX, No. 2
	(b) Jaina Studies in Stone at Abu and Kumbharia	Jaina Yuga-Bombay September-November-December, 1959
	(c) Lothal—A Port?	Journal of the Oriental Institute, Vol. IX, No. 2, March, 1960
	(d) Place-Names in the Grant of Dadda III, dated year 427. (Jointly with Dr. R. N. Mehta)	Journal of the Oriental Institute, September, 1959
	(e) Introduction of Sasana devatas in Jain Worship	Paper read before the Prakrit and Jainism Section, All-India Oriental Conference, Bhubaneswar, October, 1959.

Name	Title	Where published
(f) Mathurano-Vodva-Stupa		Jaina Yuga, Bombay, March, 1960.
(3) Professor G. H. Bhatt, Head, Ramayana Department	(a) On Valmiki	Journal of the Oriental Institute, Vol. IX, No. 1.
	(b) Kraunchavadha in Dhvanyaloka and Kavyamimamsa	Journal of the Oriental Institute, Vol. IX, No. 2.
(4) Shri J. P. Thaker, Research Officer	(a) Mudraraksasa—Gujarati Concise rendering	Buddhiprakasa, August, 1959.
	(b) Lexicographical Studies in Jaina Sanskrit II Prabandhakosa of Rajasekhara Suri in Collaboration with Professor B. J. Sandesara	Journal of the Oriental Institute, Vol. IX, No. 3.
(5) Shri S. D. Parekh, Research Officer	(a) Some Jaina works on the Folktale of Pandandachatra	Read at the 20th Session of the All India Oriental Conference held at Bhubaneswar, October, 1959.
	(b) નરપતિકૃત 'પંચદંડની એક જૂની હસ્તપ્રત'	Essay submitted at the 20th Session of the Gujarati Sahitya Parishad held at Ahmedabad in the year, 1959.
(2) Books		
(1) Dr. U. P. Shah, Deputy Director	(a) Akota Bronzes—(illustrated)	Director of Archaeology, Bombay State, 1959.
	(b) Lothal—In Gujarati	Published by Parichaya Pustika Pravrtti, Bombay, 1960
	(c) Sculptures from Samalaji and Roda (illustrated)	Museum and Picture Gallery, Baroda, March, 1960.
(2) Professor G. H. Bhatt, Head, Ramayana Department	Critical Edition of the Valmiki Ramayana Bala-kanda, Fascicule-3	Oriental Institute, M. S. University of Baroda, March, 1960
(3) Shri J. S. Pade, Research Officer	Vinalaksana and Vinalaksana—Critical Edition	Published in G.O.S. as No. CXXXI, 1959



### 13. Distinguished Visitors

The following were some of the distinguished visitors to the Institute during the year :

<i>Name</i>	<i>Date of visit</i>
(1) Professor Humayun Kabir, Minister of Scientific Research and Cultural Affairs, Government of India, New Delhi.	15-8-1959
(2) Shri B. S. Kesvan, Librarian, National Library, Calcutta.	28-8-1959
(3) Dr. A. L. Basham, Professor and Head of the Department of History, in the School of Oriental and African Studies, London.	22-10-1959
(4) Shri G. L. Mehta, Ex-Ambassador of India in U.S.A.	29-11-1959
(5) Shri Alexander Vou Schmelino, Consul, German Consulate General, Bombay.	21-12-1959
(6) Shri Ahmed Mohiuddin, Deputy Minister for Civil Aviation, Government of India.	6-2-1960
(7) Dr. Gopal Reddy, Minister for Revenue and Civil Expenditure, Government of India, New Delhi.	29-3-1960

### 14. Chronology of Gujarat

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 beginning of the Solanki period, is under print.

## CHAPTER XVIII—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

### 1. Brief History

The Institution was first started in the year 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 of Baroda 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 in July, 1950 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. An Open Air Theatre was built in 1956-57. Extension of the present building has been completed. It 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)

### 4. Number of Students

The number of students enrolled in various classes at the commencement of the year 1959-60 is as under :



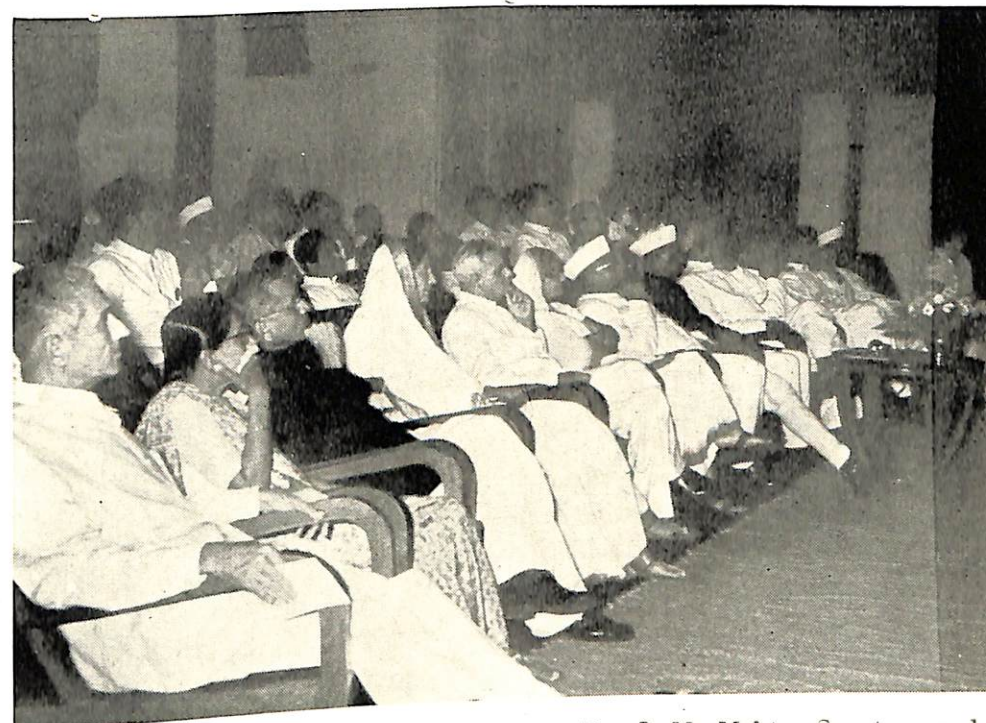
<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
(1) DIPLOMA :			
First year	71	51	122
Second year	47	37	84
Third year	35	21	56
Fourth year	31	12	43
Fifth year	10	11	21
Total	194	132	326
(2) B. Mus.:			
First year	7	2	9
Second year	3	3	6
Third year	2	2	4
Fourth year	4	4	8
Non-Collegiate	—	2	2
Total	16	13	29
(3) M. Mus.			
Junior	1	1	2
Senior	1	4	5
Total	2	5	7
Grand Total	212	150	362

### 5. Staff

During the year, the staff consisted of a Principal, 1 Honorary Visiting Professor, 2 Honorary Visiting Lecturers, 3 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:

<i>S. No.</i>	<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
(1)	Professor S. R. Mehta, Ahmedabad	27-9-1959	Old Composers and Compositions in Khyal
(2)	Professor Amiya Ranjan, Bannerjee Calcutta	25-11-1959	Vocal Classical Music



Governor Shri Sri Prakash, Vice-Chancellor Dr. J. M. Mehta, Senators and Guests during the Cultural programme in the College of Indian Music, Dance and Dramatics



S. No.	Name of the Lecturer	Date	Subject
(3)	Shri Yeshwant Purohit, Bombay	20-12-1959 21-12-1959	Vocal Demonstration and a lecture demonstration on " Interpretation and Musical values in Kirana Style "
(4)	Shri D. K. Datar, Bombay	31-1-1960	Violin Recital
(5)	Professor G. C. Bannerjee, Bombay	12-2-1960 13-2-1960	Two lectures on " Love Scenes in the English Drama "
(6)	Shri Hanuman Prasad, Bombay	20-2-1960 21-2-1960	Lecture on " Jaipur Gharana and Its Masters and Promoters " and Demonstration—Kathak on " Thumari Bhava "

#### 6. Library

The working hours of the Library of the College of Indian Music, Dance and Dramatics, are from 9-00 a. m. to 12-00 noon in the morning, 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 re-organised 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 Reading Room daily	25
(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	1097
(4)	Total number of books issued to teachers during the year	1043

The following figures show the stock and the expenditure on the maintenance of the Library and Reading Room during the year 1959-60 :



Sr. No.	Particulars	Number	Cost in Rupees
(1)	Books ( including back numbers of Journals ) as on 1-7-1959	3,383	23,173=52
(2)	Books written off during the year	—	—
(3)	Books added during the year	208	1,583=31
(4)	Books as on the 31st March, 1960	3591	24,756=83
(5)	Journals subscribed during the year	54	564=41
(6)	Amount spent on binding	—	192=31
(7)	Staff	1	1,872=07
(8)	Total amount spent for Library and Reading Room during the year	—	4,212=10

### 7. Museum, Laboratories, Studios, Workshops

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, and a part-time lecturer has been appointed for this work.

The following table shows the cost of equipment in the laboratory :

Sr. No.	Item	Cost of equipment as on 1-7-1959	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1960
		Rs.	Rs.	Rs.	Rs.
1	Physics Laboratory	2,947=95	—	368=22	3,316=17

### 8. Publications by the members of the staff

#### (1) Articles or Papers :

Name	Title	Where published
Professor R. C. Mehta	(i) Folk Music	Vishva Manav, February, 1960
	(ii) Gujarat and its Music of the last hundred years	Gyan Prasarak Mandalii 110 years Smark Granth

Name	Title	Where published
	(iii) Musical Aesthetics and Melodic Tensions	Journal of the Music Academy, Madras, 1959
Shri M. P. Khokhar	Folk Dance, Indian Dance ( Kathak )	Prepared three special numbers of Marg, on Indian Dance. These numbers were in Kathak (September, 1959), Folk Dance (December, 1959) and Orissi Dance ( March, 1960 )

#### (2) Books :

Name	Title	Name of the publisher with month of publication
Shri J. D. Thaker	उर्वशी काव्य	Gurjar Grantha Ratna Karyalaya, Ahmedabad, July, 1959.

### 9. Literary, Cultural and other activities

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

(2) A Lecture was arranged on " Theatre Architecture and Construction Plan for a Civic Theatre " by Shrimati Pravina Vashi, Bombay under Extra Mural Lectures programme.

(3) In the academic year 1959-60 a beginning was made in the technique of staging Sanskrit Plays. The season was opened with two plays by BHAS—KARNA-BHAR AND DOOTVAKYA for the chief guest of the convocation. These two plays were repeated at the invitation of the Gujarati Sahitya Parishad at Ahmedabad, and were well-received. During this period, the staff of the Natghar was working on a play of stark realism. The story of Megahni વસુંધરાનાં વહાલંદવલં rendered into a play was also taken up for practice in the realistic style of production.

Next was a translation of Moliere's famous drama " Tartuffe " by Dr. ( Shrimati ) Hansa Mehta. The play was undertaken to gain experience in the staging of foreign plays in the Gujarati language. Considerable work



has been done now in this direction. The "Merchant of Venice" was translated into Gujarati and the results were studied. Along with this was undertaken a play in Hindi named "Konark" by Jagadishchandra Mathur. It will be produced at the Rotary Conference at Baroda.

One performance of 'Mazamrat' was presented at Palanpur at the request of the Collector of Banaskantha, Palanpur, to help the campaign of "National Savings Certificates". The *Natghar* also presented cultural shows for the various conferences held under the auspices of the University.

The *Natghar* has so far developed the following special features :

- ( i ) A semi-professional team made up of artists employed on fixed honorarium and of advanced students of the class has been developed.
- ( ii ) Experimentation on various styles like ( a ) Sanskrit style of production, ( b ) Realistic style like Meghani's story *Vasundhra-na-Vhala-Davala* and ( c ) French—Moliere's style of action and production.
- ( iii ) Working on rehearsals of such plays as a more effective method of teaching drama than the old class-room method.
- ( iv ) The gradual building up of a well-equipped wardrobe.

#### 10. Co-curricular Activities

( 1 ) The College celebrated the anniversaries of Professor Maula Bux, Pandit Bhatkhande and Pandit Vishnu Digamber.

( i ) The College celebrated Swami Haridas Jayanti.

( ii ) 'Sangit Nritya Mahotsava' was organised at Gandhi Nagar Gruha.

( iii ) A Social Day Gathering ( College Annual Day ) was held on the 6th February, 1960. The staff and the students of the degree and diploma courses participated with enthusiasm. The Vice-Chancellor was the Chief Guest at the programme. Shrimati Saralaben Mehta gave away the prizes and the diploma certificates to the successful students of the 1959 examinations.

( 4 ) The students of the College went on a study tour to Delhi during the year.

#### 11. Tests 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 in studies, and to teachers in maintaining regularity in the total coverage of each subject. Attendance at tutorials is compulsory.

#### 12. Other Important Events

( 1 ) The following are the distinguished visitors to the College :

	Name	Date of visit
1	Shri Balraj Sahani, Stage and Film Actor	27-7-1959
2	Mr. J. E. Schaap, First Secretary of Cultural Affairs, Royal Netherlands Embassy	28-7-1959
3	Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India	15-8-1959
4	His Excellency Shri Sri Prakash, Governor of Bombay	17-10-1959
5	Dr. Welney La Violettee De Paul University of Chicago	14-11-1959
6	Combodian Educationists Delegation	20-11-1959



## CHAPTER XIX—BARODA SANSKRIT MAHAVIDYALAYA

### 1. Brief History

The Institution was established by the former Baroda State in 1915. With the passing of the Maharaja Sayajirao University of Baroda Act, 1949, it became a constituent recognised institution of the University but its management continued to be 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 called Temple of Radhavallabh which belongs to the Devasthan Department. It has a hostel in a hired building to accommodate 15 students. The number of students residing in the hostel during the year was 13.

### 3. Courses of Studies

The institution offers courses in four stages as under :

( 1 ) *Vachaspati* : A research course of two years' duration for the higher post-Acharya research degree of 'Vachaspati' has been instituted to which those who have passed the Acharya examination of this University or its equivalent examination can be admitted.

( 2 ) *Uttam Kaksha* : or Special Pandit Course of four years' duration is split up into two courses the Shastri course extending over first two years and Acharya course ( post-Shastri course ) extending over the last two years, in the subjects of ( i ) Vyakaran Shastra, ( ii ) Jyotish Shastra, ( iii ) Dharma Shastra, ( iv ) Sahitya Shastsa, ( v ) Nyaya and Vaisheshik Darshan, ( vi ) Sankhya Yoga and Vedanta Darshana and ( vii ) Purva Mimansa Shastra. Instruction in the first four branches only was imparted during the year.

( 3 ) *Madhyama Kaksha* course of five years' duration leads to the '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 as a compulsory subject for both the branches.

( 4 ) *Pratham Kaksha* or certificate course is of the three years' duration in each of the branches of ( i ) Yajurveda yajiniki, ( ii ) Rig-veda yajiniki and ( iii ) Purana with Grammar and Literature compulsory for all branches.

### 4. Number of Students

The number of students enrolled in various classes during the year 1959-60 is as under :

Class	Men	Women	Total
( 1 ) <i>Pratham Kaksha Certificate</i>			
First Year	19	6	25
Second Year	8	3	11
Third Year	8	—	8
Total :	35	9	44

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

##### ( i ) *Vyakaran Shastra*

First Year	5	—	5
Second Year	1	—	1
Third Year	1	—	1
Fourth Year	3	—	3
Fifth Year	2	—	2

##### ( ii ) *Jyotish Shastra*

First Year	5	—	5
Second Year	1	—	1
Third Year	2	—	2
Fourth Year	2	—	2
Fifth Year	2	—	2

Total : 24

#### ( 3 ) *Shastri*

##### ( i ) *Vyakaran Shastra*

First Year	1	—	1
Second Year	1	—	1

##### ( ii ) *Jyotish Shastra*

First Year	—	—	—
Second Year	—	—	—

##### ( iii ) *Sahitya Shastra*

First Year	—	—	—
Second Year	—	1	1



Class	Men	Women	Total
(iv) Dharma Shastra			
First Year	—	—	—
Second Year	1	—	1
Total :	3	1	4
(4) Acharya			
(i) Vyakaran Shastra			
First Year	1	—	1
Second Year	1	—	1
(ii) Jyotish Shastra			
First Year	2	—	2
Second Year	—	—	—
(iii) Sahitya Shastra			
First Year	—	—	—
Second Year	1	—	1
(iv) Dharma Shastra			
First Year	—	—	—
Second Year	1	—	1
Total :	6	—	6
Grand Total :	68	10	78

### 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

The Institution has a small Library and a Reading Room. The following are the figures showing average daily attendance in Reading Room and circulation of books :

Sr. No.	Particulars	Number
1	Average number of students making use of the Reading Room.	50
2	Average number of teachers making use of the Library and the Reading Room daily.	13
3	Total number of books issued to the teachers during the year.	225

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

Sr. No.	Particulars	Number	Cost in Rs.
1	Books (including back numbers of Journals) as on 1-7-1959	3,253	10,047=44
2	Books written off during the year	—	—
3	Books added during the year	103	325=16
4	Books as on 31-3-1960	3,356	10,392=60
5	Journals subscribed during the year	10	53=76
6	Amount spent on binding during the year	—	—
7	Total amount spent for the Library and the Reading Room during the year	—	378=92

### 7. Literary, Cultural and Other Activities

#### (1) Lectures :

Some teachers of the Institution gave lectures under the auspices of Shardopasaka Mandal. The Institution arranged extension lectures on different subjects, eight by the member of the teaching staff and three by other lecturers. Some teachers also delivered lectures on popular topics.

#### (2) Celebrations :

The Institution celebrated the Jayantis of Vyas, Kalidas and Valmiki on the 20th July, 11th October, 1959 and the 31st March, 1960 respectively.

#### (3) Gita Competition :

With a view to give impetus to the study of Gita, Gita competition was arranged on the 9th October, 1959 in which students from different institutions participated.

### 8. Co-curricular Activities

#### (1) Parliamentary Debates :

A parliamentary debate was held in Sanskrit on the subject of Uttarramcharita Karuna Ava Rasa during Shardotsava celebrations.

#### (2) Kavi Sammelan :

A Kavi Sammelan was organised in the Institution during the Shardotsava in the month of October, 1959.



(3) *Elocution Competition :*

The Institution organised an elocution competition during the *Shardotsava*. It also arranged debates and lectures in Sanskrit by students as well as by Adhyapakas in turns on every Friday with a view to give training to the students in the art of dialectics in Sanskrit.

(4) *Study Tours :*

The Madhyama Kasha students organised an excursion to Haradwar, Delhi, Agra and other places in December, 1959. The students of Shastri and Acharya courses went on educational tour to Mathura, Delhi, Allaha-bad and Benaras in January, 1960.

9. *Other Important Events*

- (1) The Institution celebrated the Annual Prize Distribution Ceremony for the award of diploma certificates, medals and prizes on the 15th March, 1960 under the presidentship of the Vice-Chancellor.
- (2) A donation of Rs. 500-in two instalments was received from Sheth Hansraj Pragji Thackersey Educational Trust for the purpose of giving scholarships to successful students in the terminal examination.
- (3) The following distinguished Visitors saw the Institution :
  1. Pandit Hariram Shukla,  
Sanskrit Vishwa Vidyalaya,  
VARANASI
  2. Shri Vasudeva Trivedi,  
Chairman,  
Sarvabhom Sanskrit Prachar Karyalaya,  
VARANASI
  3. Shri P. C. Diwanji,  
Editor, Ramayana Department,  
Oriental Institute,  
Baroda.

## CHAPTER XX—PREPARATORY 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 discontinuation of the Intermediate Classes, in Arts, Science and Commerce, whereas the Preparatory Science Class was brought under this College in line with Preparatory Arts and Commerce. From May, 1960 the institution is designated as Preparatory Unit.

2. *Building*

The Unit has no separate building of its own. Classes are held in the rooms of the Faculties of Arts and Science 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. The Course is based mainly on a General Education pattern. Out of the seven papers each student is required to take at the Preparatory, the first three viz. (1) English Language and Literature, (2) Indian Literature and (3) Social Studies are compulsory for all students—Arts, Science or Commerce. The Arts and Commerce students have also to take a course in General Science. The Preparatory Year is treated as the foundation year preparing students for the three year degree course.

4. *Number of Students*

The number of students enrolled in the different classes at the commencement of the year 1959-60 was as under :

Class	Men	Women	Total
Preparatory Course in Arts	236	164	400
Preparatory Course in Science	432	48	480
Preparatory Course in Commerce	383	7	390
Total :	1051	219	1270



### 5. 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.

### 6. Library

Under the University Scheme of amalgamation of the libraries of institutions situated in the old Baroda College area, the library of this Unit was amalgamated with the main University Library. Some periodicals are being supplied for the teachers Common Room by the University Library.

### 7. 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 play the major games. A large number of cadets, both men and women, are from this Unit. They took part in the ceremonial parades and also participated with distinction in the various competitions held at their camps. The Unit Association organised Badminton, Table tennis and Carrom tournaments which were keenly contested. Students of the Unit actively participated in the Inter-Faculty tournaments held during the University Youth Festival Week.

Two students of the Unit took part in the Inter-University Basket Ball tournament held at Trichur, one in the Inter-University Foot Ball tournament held at Baroda and one in the Inter-University Volley Ball tournament held at Nagpur. One student represented our University in the Inter-University athletic meet at Kanpur, while five students played for the University in the Inter-University Cricket tournament held at Poona and Bombay.

#### (ii) Debates :

Students of this Unit participated in the Inter-Faculty Debates organised by the M. S. University Union throughout the year. A girl belonging to this Unit won the first prize at the Inter-Faculty Ladies' Debate. A prize debate was also organised by this Unit.

#### (iii) Societies and Other Associations :

(a) The Marathi Vangmaya Society and the Geography Association arranged film shows and seminars. An educational tour to Kashmir was arranged during the Diwali vacation by the Geography Association.

(b) Entertainment Programme : Students of the Unit participated in the Inter-Faculty competitions of variety entertainment programmes at the University Youth Festival, and the Inter-University Youth Festival held at Mysore, and won prizes.

#### (c) Small Savings Scheme :

The students and staff of this Unit have contributed substantially to the Small Savings Scheme. During the year a small savings exhibition was organised by the officers under the auspices of the Students' Association.

### 8. Tests and Class Work

The percentage of marks reserved for class work and tests was 30% for the year under report. Periodical tests were arranged regularly in each subject for the Preparatory Arts, Science and Commerce. These tests are devised to make the students regular in study and to lighten the burden of the final examination.

### 9. Other Important Events

(1) Dr. J. M. Mehta, Vice-Chancellor, M. S. University of Baroda addressed the students of the Preparatory Classes on the 21st July, 1959 and emphasised the need for discipline and hard work.

(2) Lieut. Commandar K. R. Rao of the Indian Navy addressed the students of this Unit on the 9th January, 1960 on Naval Life in India.

(3) The Annual Day was celebrated on the 26th February, 1946 with Dr. C. S. Patel, Pro-Vice-Chancellor as Chief Guest. The programme consisted of prize distribution, light entertainment, music by students and a community dinner.



## CHAPTER XXI—POLYTECHNIC

### 1. Brief History

The Polytechnic was started in June, 1957 under the Expansion Scheme of Degree and Diploma Courses in Civil, Mechanical and Electrical Engineering of the Government of India under the current Second Five Year Plan. The Institution imparts instruction for the Diploma Courses in Civil, Mechanical and Electrical Engineering each of 3 years' duration. Prior to the establishment of this Institution these courses were conducted at the Faculty of Technology and Engineering, M. S. University of Baroda, Baroda. The strength of total admission then was 180 as against the present strength of 300. The syllabi of these courses are practically identical to those of the corresponding courses conducted by the Department of Technical Education, Bombay State, Bombay.

The University Grants Commission provided for the non-recurring expenditure on buildings, equipment and books to the extent of Rs. 13,40,000, Rs. 10,64,500 and Rs. 20,000 respectively. They also bore full recurring expenditure during the year 1957-58, 80% in the year 1958-59 and 50% in the year 1959-60, the balance being borne by the Government of Bombay. The shares of recurring expenditure during 1960-61 to be borne by the University Grants Commission and the State Government will be 50% each. The Government of India have also approved of a loan of Rs. 18,52,500 for construction of additional halls of residence in the University.

### 2. Buildings

Construction work of the new buildings of the Polytechnic was progressing satisfactorily during the year. The ground floor is now completed, and work of first floor is under progress. The whole building is expected to be ready by December, 1960. The first year and the second year Diploma classes were conducted in the new building during the year. The final year Diploma classes continued to be held in the Faculty of Technology and Engineering buildings.

The construction work of 3 hostels of the Polytechnic was started during the year and is progressing fast. It is expected that these will be ready for occupation by June, 1961.

### 3. Courses of Studies

The Polytechnic offers the following Diploma Courses in Engineering :

Name of the Course	Duration of the course	Sanctioned 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

### 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	175	—	175
Mechanical Engineering	82	1	83
Electrical Engineering	72	—	72
Total ...	329	1	330
<i>Second Year Diploma</i>			
Civil Engineering	96	—	96
Mechanical Engineering	78	—	78
Electrical Engineering	55	—	55
Total ...	229	—	229
<i>Third Year i.e. Final Year Diploma</i>			
Civil Engineering	116	—	116
Mechanical Engineering	87	—	87
Electrical Engineering	57	—	57
Total ...	260	—	260

### 5. Staff

During the year under report the staff of the Polytechnic consisted of 1 Principal, 4 Professors, 16 Lecturers, 38 Demonstrators, 46 Class III and 51 Class IV servants.



### 6. Library

The library is housed in the new building of the Polytechnic and books were issued to the staff members and the students during the year. The following figures show the use of the library and the reading-room by the students and the teachers.

Sr. 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 library and the reading room daily.	10
3.	Total number of books issued to students during the year.	2,380
4.	Total number of books issued to teachers during the year.	1,050

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

Sr. No.	Particulars	Number	Cost in Rs.
1.	Books (including the back numbers of Journals) as on 1-7-1959.	1,919	30,513=34
2.	Books written off during the year.	—	—
3.	Books added during the year	757	11,710=96
4.	Books as on 31-3-1960	2,676	42,224=30
5.	Journals subscribed during the year	34	1,302=25
6.	Amount spent on binding during the year	—	186=75
7.	Total amount spent for library and reading-room during the year	—	13,199=96

### 7. Laboratories, Workshops, etc.

Out of Rs. 10,84,500 sanctioned for equipment, furniture and Library Rs. 2,50,972=77 have been spent during the year under report. The total amount spent from this grant upto the end of the year is Rs. 7,27,212=02. The following table gives the total amounts sanctioned and the amounts actually spent upto the end of the year for the purchase of equipment, machinery, etc., in different laboratories and workshops of the Polytechnic:

S. No.	Laboratory or Shop	Amount sanctioned by the University Grants Commission	Total amount spent upto 31-3-1960
		Rs.	Rs
1	Physics and Chemistry Laboratory	54,000=00	31,543=47
2	Applied Mechanics Laboratory	18,000=00	12,377=40
3	Strength of Materials ..	60,000=00	51,758=68
4	C. E. and R. C. C. Laboratory	11,800=00	11,811=72
5	Surveying Instruments	86,800=00	71,584=55
6	Heat Engines Laboratory	1,42,000=00	38,487=47
7	Hydraulics Laboratory	70,000=00	15,716=63
8	Electrical Engineering Labo.	2,11,000=00	1,61,830=77
9	Electronics Laboratory	23,500=00	23,201=89
10	Workshop		
	(a) Carpentry Shop	33,000=00	22,185=33
	(b) Fitting Shop	38,600=00	12,338=99
	(c) Machine Shop	1,38,700=00	1,11,138=62
	(d) Smithy Shop	22,000=00	21,030=94
	(e) Foundry and Smithy Shop	15,000=00	14,249=53
	(f) Welding Shop	10,000=00	4,662=60
	(g) Tin Smithy Shop	5,000=00	4,371=33
	(h) Masonry and Plumbing Shop	5,000=00	974=79
	(i) Drawing Materials	4,000=00	—
	II Erection charges for various equipment of the above shops	—	21,357=33
11	Models and Materials for models	7,000=00	4,593=40
12	Audio-Visual Equipment	9,100=00	4,293=17
13	Furniture	1,00,000=00	70,333=39
14	Books	20,000=00	17,919=02
		10,84,500=00	7,27,212=02

Orders worth Rs. 1,31,533 for various equipment, etc. have already been placed. Arrangements for ordering remaining equipment are on hand.



### 8. Literary, Cultural and Co-curricular Activities

As only the first and the second year classes were conducted in the new building of the Polytechnic and the final year classes were still conducted in the Faculty of Technology and Engineering during the year under report and as the staff of the Polytechnic has been working jointly with that of the Faculty of Technology and Engineering, all extra-curricular activities of the Polytechnic such as extra-mural activities, sports, debates, lectures by distinguished visitors, etc. were held in common and as arranged by the Faculty.

### 9. Tests and Class Work

Attendance at the terminal examination, tutorials and tests is compulsory. The system of giving credit upto 20% marks for theory papers, tutorials and tests done during the term is adopted. Regular records of class work and periodical tests of the students are maintained. In deciding results of annual examinations conducted by the University the marks obtained by the students in their terminal examination, tutorials, class work, tests are taken into account.

### 10. Other Important Events

- 1 Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India, visited the Institution on 16th August, 1959.
- 2 Shri T. N. Tolani, Director of Technical Education, Bombay State visited the Institution on the 21st January, 1960.

## 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 panel of sculpture in cement is executed by the Faculty of Fine Arts on the front facade of the new building. The library also provides instruction in a course leading to the Post-graduate Diploma in Library Science.

### 2. Acquisition Notes

#### (1) Books :

The following grants were received from the University Grants Commission for the purchase of books and periodicals, in addition to the grants received in the year 1958-59 which are to be utilised before the end of the Second Five Year Plan period :

Grants	Amount
1. For books for the Development Scheme of the following Departments :	
(a) Post-graduate Diploma in Co-operation Course	Rs. 10,000
(b) Economics	Rs. 10,000
(c) Museology	Rs. 7,000
(d) Politics	Rs. 55,000
(e) Biochemistry	Rs. 15,000
2. Faculty of Technology and Engineering	Rs. 41,000
3. For books on Science and Technology	Rs. 40,000

The grant of Rs. 1,00,000 received last year from the University Grants Commission for purchase of books and periodicals on Humanities has been fully utilised.



The Library also received as usual a grant of Rs. 23,000 from the University for the purchase of books and periodicals and the grant has been fully utilised.

There have been some noteworthy additions during the year viz., An Anthropological Bibliography of South Asia and Directory of recent Anthropological Field Work; Proceedings of the International Symposium on Enzyme Chemistry; Scientific, Medical, and Technical books published in the United States of America, ed. by R. R. H. Hawkins, 1958; Literary History of Persia 4 Vols., Cambridge Modern History 13 Vols. The work of Edmund Spenser 10 Vols., A History of Technology, ed. by C. Singer and E. J. Holmyard; The Australian Encyclopaedia 10 Vols., The Palaeography of India by Ojha; Rassenkunde and Rassengeschichte der menschheit 13 Vols.; The Carbohydrates chemistry, Biochemistry, Physiology, ed. by W. Pigman; Ben Johnson the Man and his work 10 Vols., Osteology of Reptiles by A. S. Romer; Universal Decimal Classification Abridged, Trilingual Edition; Indian National Bioliography, Annual Vol. 1958; Der Ornamenteschatz by Dolmetsch; Indian Primitive Art, by Mookerjee; Archaeological Survey of India by Hultzsch 3 Vols.; The Life of Robert Lord Clive by Malcolm 3 Vols.; Early Indian Sculpture by Ludwig 2 Vols.; The Textile Manufactures and Costumes of the people of India by Watson; Ornament, Survey of the Applied Art of all Ages and all countries by Bossert.

The policy of acquiring the back files of scholarly periodicals is being consistently followed and following back files have been acquired during the year: American Economic Review Vols. 16-17; Review of Economics Studies Vols. 1-14; Man Vols. 1-40; Far Eastern Quarterly Vols. 1-18; American Anthropologist Vols. 1-54, Acta Mathematica Vols. 72-98; Annales de l'Ecole Normale supericure Vols. 67-75; American Journal of Philology Vols. 1-79.

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

	Number of books
Shrimati Hansa Mehta Library (which includes the books for the Faculties of Arts, Science, Education and Psychology, Commerce and Preparatory Unit)	15,975
Faculty of Fine Arts	85
Faculty of Home Science	319

Chetan Balwadi	30
College of Indian Music, Dance and Dramatics	208
Oriental Institute Printed Section	867
Polytechnic	757
Sanskrit Mahavidyalaya	43
Faculty of Social Work	135
Faculty of Technology and Engineering	1,253
Total ...	19,672

Out of these books, 7,588 books were procured from the grants of the University; 11,399 books from the grants given by the University Grants Commission and 685 books were received as gift.

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

	Books	Bound Periodicals	Pamphlets	Manuscripts	Maps, Charts, etc.	Total value in Rupees
Items at the beginning of the year	1,32,684	14,136	5,556	56	523	18,64,518=98
Items added during the year	15,975	850	700	—	34	1,81,048=97
	1,48,659	14,986	6,256	56	557	20,45,567=95
Items withdrawn from the records	610	—	—	—	—	1,941=04
Items remaining at the end of the year	1,48,049	14,986	6,256	56	557	20,43,626=91

### (2) Periodicals:

The total number of periodicals and scholarly journals subscribed for, now stands at 1,100. 850 volumes of periodicals bound were added to the stock during the year.

### 3. Cataloguing

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



(A) Books classified and catalogued during the year :

(1) New accessions to University Library	15,975
(2) New accessions to the Faculties	3,697
(3) Arrears from the last year	2,000
Total :	21,672

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

	For Univer- sity Library	For Faculties	Total
(1) Cards typed	53,925	22,182	76,107
(2) Cards filed in the catalogue	53,925	22,182	76,107

4. Circulation of books etc.

The Library remains open from 8-00 a.m. to 8-00 p.m. on all working days, except Sundays and holidays. In the second term, it remains open from 8-00 a.m. to 10.00 p.m. It is also kept open on Sundays and holidays in the order to give more facilities to the students preparing for examinations.

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

(1) Post-graduate students	548
(2) Undergraduate students	5,821
(3) Research students, scholars and assistants	102
(4) University teachers	437
(5) Others	362
Total :	7,270

The statistics of the library use are given below :

(1) Daily average number of readers visiting the library	1,500
(2) Average number of books issued per day for home reading	448
(3) Average number of books issued per day from Curricular Collection	351

(4) Average number of books issued per day for Reference	205
(5) Total average number of books issued per day for reading	1,003
(6) Average number of fiction books issued per day for home reading	134

5. Reference Section

(1) Exhibitions :

This year the Reference Section organised the following exhibitions :

- (1) U. N. Day
- (2) Parichaya Pustika series
- (3) English Literature ; some new and interesting work.

(2) Bibliographical activity :

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

- (1) Bibliography on Inventory, losses and thefts of books in libraries
- (2) Bibliography on Round Table Conference
- (3) Bibliography on Manufacturing in Gujarat
- (4) Bibliography on Business Management
- (5) Bibliography on Coleridge
- (6) Bibliography on the History of Gujarat

6. Teaching of Library Science

This year sixteen students were admitted to the course. All of them appeared at the examinations ; nine came out successfully, five passed in Second Class and four in Pass Class.

7. Faculty Libraries

The University Librarian and the Assistant Librarian visited the Faculty Libraries and helped in the planning of library equipment, furniture and the Reading Rooms of the libraries of the following institutions :

- (1) Faculty of Technology and Engineering.
- (2) College of Indian Music, Dance and Dramatics,
- (3) Faculty of Social Work.



### 8. Other Important Events

The following distinguished persons had visited the Library during the year :

- ( 1 ) Professor Humayun Kabir,  
Minister for Scientific Research and Cultural Affairs,  
Government of India.
- ( 2 ) Shri G. L. Mehta,  
Ex-Embassador to U.S.A.
- ( 3 ) Shri Ahmed Mohiuddin,  
Deputy Minister for Civil Aviation,  
Government of India.
- ( 4 ) Shri Sri Prakash,  
Governor of Bombay State.
- ( 5 ) Dr. B. Gopala Reddy,  
Minister for Revenue and Civil Expenditure,  
Government of India.

Under the India Wheat Loan Educational Exchange Programme, Dr. C. P. Shukla, the University Librarian, was selected for a study tour to U.S.A. for five months. During his tour, Dr. Shukla devoted his time to study the organization of University Libraries, their contribution to research, the teaching of Library Science and the organisation of documentation and information retrieval in the U.S.A.

## CHAPTER XXIII—MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA 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 construction of the Press building was completed at a cost of about Rs. 3,60,000 and the premises were occupied by the Press in June, 1959. During the year the construction of water storage tank was completed.

### 3. Staff

During the year, the staff of the Press consisted of a Manager, an Assistant Press Manager, a senior clerk and 35 permanent workers of the Press. Temporary workers were engaged when required.

### 4. Machinery

The Press has machinery worth about Rs. 70,000. No machinery was purchased during the year, except some accessories required for Monotype machine.

### 5. Printing Activities

During the year 222 examination papers for October, 1959, 65 + 5 upto the 31st March, 1960 for University examinations were printed in addition to Syndicate and Senate proceedings, Hand-book, Annual Report, Annual Accounts, Budget Establishment List, Pamphlets, Certificates, etc. The Press also printed general forms, lists, prospectus, questionnaires, magazines, etc. of the Faculties and Institutions.

( 1 ) The following books were completed and published during the year :

Hand Book Part I	( M. S. University of Baroda )
Identifying Social Work Potentials	( Faculty of Social Work )
Through Projection Tests	
An Outline of the Educational Administrative Set-up in the U. S. A., U. S. S. R., England, China and Japan	( Faculty of Education and Psychology )



The Representation of the English Sounds in the Gujarati Script	( Faculty of Education and Psychology )
Qualitative Study of the Explanations of Physical Causality given by Pre-School Children	( Faculty of Education and Psychology )
तरवानी कव्वा	( Oriental Institute )
वर्णक समुच्चय	( Gujarati Department, Faculty of Arts )
नाट्य दर्पण	( Oriental Institute )
Statistical Report of Medical Examination of Students—1956-57 and 1957-58	( Faculty of Science )
प्रवेशको गूच्छ-१	( Gujarati Department, Faculty of Arts )
Symposium-Frustration	( Registrar, M. S. University of Baroda )
Vinalakshana	( Oriental Institute )
भारतीय सौंदर्यशास्त्र	( Faculty of Fine Arts )
Records of Group Work Practice in India	( Faculty of Social Work )
आवादीना मार्गे	( Oriental Institute )
Some Hymns of Rgveda—Part II	( Faculty of Arts )
Progressive metrics test applied to a group of Secondary School-going children in Gujarat	( Faculty of Education and Psychology )
Electrical Power and Prospects of some Electro-Metallurgical Industries in India	( Faculty of Science )
Planning of Activities in General Science ( A Report )	( Extension Department, Faculty of Education and Psychology )
हिंदुवेदधर्म	( Oriental Institute )
Teaching of Commerce in Secondary School	( Faculty of Education and Psychology )
Main currents in the Ancient History of Gujarat	( Faculty of Arts )

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

The Journal of M. S. University	( Half yearly )
The Journal of Animal Morphology and Physiology	( Half yearly )
The Journal of Oriental Institute	( Quarterly )
The Journal of Vocational and Educational Guidance	( Quarterly )

The Journal of Education and Psychology	( Quarterly )
The Journal of the Association of Principals of Technical Institutions—India	( Quarterly )

( 3 ) The following works are in Progress :

उल्लासराव नाटकम्	( Oriental Institute )
पाद—Index of Ramayana	( Oriental Institute )
वैशेषिकसूत्र	( Oriental Institute )
मानसोद्धार	( Oriental Institute )
Mirat-I-Sikundari	( Faculty of Arts )
Chronology of Gujarat	( Oriental Institute )
Bhils of Ratanmal	( Faculty of Arts )
Preservation of Museum Objects	( Museology Department )
Ramayana Critical Edition Balkanda	( Ramayana Department )
Biography of Professor Gajjar	( Oriental Institute )
Sitar Darpana	( Music College )
गुजराती भाषाशास्त्र	( Oriental Institute )
पंचाख्यान	( Gujarat Department )

#### 6. University Stationery Unit

This unit is a service department of the University. This is separate from the Press, but is under the supervision of Manager. It continued to manage the purchase and distribution of stationery required by the University during the year. A special staff—one clerk, one attender and one distributor is provided for this unit under the Press Manager. Stationery was distributed to Faculties and Institutions every quarter.

#### 7. University Publications Sales Unit

This is a new Unit of the University housed in the Press premises. It started its working from November-December, 1959. The Unit consists of a senior clerk, a clerk and an attender, under the control of the Press Manager. The Unit received the stock of books from the Oriental Institute and Faculties.



## 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 co-operative 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 1959-60 opened, Shri H. C. Dholakia and Shri C. C. Shah continued to be the President and the Treasurer respectively of the Union. Elections to other offices were held on the 26th July, 1959 and the following Executive Committee was formed :

1 Shri H. C. Dholakia	President
2 Shri C. C. Shah	Treasurer
3 Shri B. S. Joshi	Vice-President
4 Shri M. R. Thakore	General Secretary
5 Kumari Vaibhavi Munshi	Members nominated by the Syndicate
6 Kumari Shila Patel	
7 Dr. Manubhai D. Patel	
8 Shri C. J. Bhatt	

In addition to the above there were other 19 members who were the representatives of the various Faculties and teaching institutions of the University.

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 B. S. Joshi
	(2) Shri M. R. Thakore
	(3) Shri S. S. Shah
(2) University Board of Sports	(1) Shri V. M. Majogathia
	(2) Shri U. M. Chhatrapati
(3) Poor Students Aid Fund Committee	(1) Shri B. S. Joshi
	(2) Shri M. R. Thakore
	(3) Shri K. G. Desai

## 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 Committee began the work with a budget of Rs. 1,500 and a collection of about 2,000 books. It augmented the library collection to a considerable extent and the distribution work of books to deserving students was properly attended to in the year under report.

### (2) Indoor Games Committee :

Students are showing more interest in Table Tennis and Badminton. Two different committees were formed for Table Tennis and Badminton during the year. The University Tournaments were held in Table Tennis, Carrom, Chess, Draught, Bridge, Ring Tennis, etc. The Inter-Faculty Table Tennis Tournaments were also held. The University sent four players to participate in the All-India Inter-University Table Tennis tournaments held at Muzzafarpur (Bihar). The team reached quarter finals and lost to Delhi University who later reached the finals. Three of the University players were also selected to represent the State in All India National Table Tennis Championships held at Calcutta.

### (3) Debating Society :

The Society arranged the following debates during the year :

(i) Extempore Debate in Hindi	31-8-1959
(ii) Vice-Chancellor's Trophy Debate in English	17-9-1959
(iii) Pro-Vice-Chancellor's Trophy Debate in Gujarati	1-10-1959
(iv) Shri B. N. Majmudar Trophy Debate in Hindi	29-11-1959
(v) Shri M. N. Wadia Trophy Debate in English	1-12-1959
(vi) Girls' Debate English, Hindi, Gujarati and Marathi	20-1-1960
(vii) Shri Nathjibhai Bhatt Inter-Faculty Extempore Debate in Gujarati	22-1-1960

Some of the University students were also deputed to participate in the 6th Inter University Youth Festival elocution competition, Rotary Club, Inter-University Trophy Debate and the Inter-University Radio Discussion in Gujarati. The students won the first prizes in the first two above Inter-University Events.



(4) *Reading Room and Library Committee :*

The Committee revised the list of newspapers and periodicals. It decided to provide the reading room and library with various books, periodicals, etc. representing a variety of cultural, social and political views. It subscribed to 4 dailies, 13 weeklies and fortnightlies and 22 monthlies during the year. It received two cupboards. The Magazines and Newspapers Section was shifted to on the ground floor opposite the Union Office. The Committee also continued the work of issuing books as usual.

(5) *Hiking Club :*

During the year hikes to the Taranga Hills, Narmada Valley and Mahabaleshwar and Pratapgarh were arranged.

(6) *Film Club :*

The Film Club provided movie entertainment to students in the Open Air Theatre of the Pavilion.

(7) *United Nations Organisation Society :*

The Society arranged a Symposium on the 26th September, and a talk on the 29th September, 1959. It celebrated the U. N. O. Day on the 24th October, 1959 in collaboration with the Collector's Office of Baroda. An essay competition was also arranged to celebrate the Human Rights Day.

(8) *Discussion Group :*

The Discussion Group arranged an Inter-University Seminar on Gandhian Philosophy from the 29th January to the 1st February, 1960. It was attended by delegates from nine Universities and three aspects of Gandhian Philosophy—Social, Political and Educational—were discussed. The Group also organised three interesting discussions by the members of the teaching staff of different Faculties.

(9) *Variety Entertainments Committee :*

The Committee organised three programmes in the Baroda College Central Hall during the year. The programmes were held on the 8th September, the 2nd October, 1959 and the 28th January, 1960. The programmes consisted of Dance, Garba, Group Song, Instrumental Music, Individual Song, Rashtriya Bhajans and Fancy Dress competitions.

(10) *Social Service League :*

The League carried out its usual activities of 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 Committee had collected a good amount from students in the previous year, contributed the same to the Baroda Flood Relief Fund. A talk and discussion on sex information was also arranged. The League extended its cooperation to the local branch of T. B. Association in the seals of T. B. seals.

(11) *Bulletin Committee :*

The Committee published two issues containing articles of interest and Faculty news during the year.

### 3. *University Week*

The University Youth Festival is a regular annual feature of the University life. It is a week-long programme comprising varied and interesting items like the Annual Sports, Inter-Faculty Debates, Inter-Faculty Competitions for Drama, Garba, Group Song, Group Dance, Brain-Trust, Kavisammelan, festival cricket match, academic and cultural exhibitions in different Faculties of the University and public entertainment for students.

Shri G. L. Mehta, India's former Ambassador to the United States of America inaugurated the Tenth University Week on Sunday, the 29th November, 1959 at the Union Pavilion, and delivered the inaugural address impressing upon the students their role in building a strong nation. The cultural programme was held in Open Air Theatre of the Faculty of Education and Psychology for the students and in Mahatma Gandhi Nagar Griha for the invitees. Every important item of the programme carries a silver trophy and a number of prizes. The University Week was concluded with the distribution of trophies and prizes to the winners by Dr. C. S. Patel, Pro-Vice-Chancellor of the University.

### 4. *Sixth Inter-University Youth Festival*

The Sixth Inter-University Youth Festival was held at Mysore and students were sent to participate in ten different items such as Drama, Dance, Music, Elocution, Painting, Drawing, Photography, etc. One student Shri Dilip Shah who participated in Hindi Elocution was given the First award as the best speaker at the Inter-University level. Another student Shri N. M. Patel of the Intermediate College gave an excellent performance in classical dance—Kathak—and was awarded the first prize.



### 5. Other Important Events

A number of distinguished visitors came to the Union Pavilion.

<i>Name</i>	<i>Date of visit</i>
(1) Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India	15-8-1959
(2) Shri G. L. Mehta, Ex-Indian Ambassador to the U. S. A.	29-11-1959
(3) Educationists of the Tenth World Conference of N. E. F.	9-1-1960
(4) Shri Ahmed Mohiuddin, Deputy Minister, Civil Aviation, Government of India.	6-2-1960

### CHAPTER XXV—VISITS, LECTURES AND DEPUTATIONS

#### 1. Visits

The following were some of the distinguished visitors to the University during the year :

(1) Dr. Woodman and Mr. Queen of the Ford Foundation, New Delhi, visited the Faculty of Home Science, Social Education Organisers' Training Centre at Samiala and the Department of General Education on the 21st September, 1959.

(2) Dr. Richard K. Anderson and Dr. L. A. Gregg of the Rockefeller Foundation visited the Medical College and the Departments of Zoology and Bio-Chemistry of the Faculty of Science on the 14th November, 1959.

(3) Delegation of 16 Cambodian Educationists visited the Faculties of Home Science, and Education and Psychology, University Experimental School, Extension Services Department, Home Science Wing and the Social Education Organisers' Training Centre on the 20th and the 21st November, 1959.

(4) A Company of Dance Jubilee consisting of 121 American Folk Dancers, Singers and Musicians played two shows at Gandhi Nagar Griha under the auspices of the University on the 10th and 11th December, 1959.

(5) Dr. A. M. D'Rozario, Joint Educational Adviser to the Government of India, Ministry of Scientific Research and Cultural Affairs, inaugurated the Exhibition of Paintings at the Museum and Picture Gallery on the 21st December, 1959. He also visited the Baroda Museum and Picture Gallery, Department of Museology, Faculties of Fine Arts and Home Science, Department of Archaeology and Ancient History and the College of Indian Music, Dance and Dramatics.

(6) Professor Ben Morris, Professor El Koussy, Professor Frank Irwin and Professor Mc Neill who had come to India to attend the Tenth World Conference of the New Education Fellowship, visited the University in their post-conference tour on the 8th and the 9th January, 1960. They visited the Faculties of Home Science, Fine Arts, Education and Psychology and Social Work, Department of Museology, Shrimati Hansa Mehta Library and the Oriental Institute.



(7) Shri Ahmed Mohiuddin, Deputy Minister for Civil Aviation, Government of India, visited the Faculties of Fine Arts and Home Science, Oriental Institute, Shrimati Hansa Mehta Library, Metereology Section in the Faculty of Science, Department of Archaeology and Ancient History of the Faculty of Arts and the University Students' Union on the 6th February, 1960.

(8) Mr. Willarm T. Hertz of the Ford Foundation visited the Department of General Education and Psychology and the Home Science Wing on the 24th and the 25th February, 1960.

(9) Dr. B. Gopal Reddy, Minister for Revenue and Civil Expenditure, Government of India, visited the Faculty of Fine Arts, Department of Museology, Oriental Institute and the Shrimati Hansa Mehta Library on the 29th March, 1960.

## 2. University Extension and Other Lectures

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

Sr. No.	Date	Name of the Lecturer	Subject
<b>Faculty of Arts</b>			
1	18-12-1959	Dr. F. G. Bailey	The members of the Sociology Staff discussed with him their research work.
2	2-2-1960 3-2-1960	Professor Nagindas Parekh	रविन्द्रनाथना शिक्षणविषयक अनुभवों, प्रयोगों अने विचारों.
3	20-2-1960	Professor W. A. Robson	Some Aspects of Public Administration.
4	6-2-1960 8-2-1960	Shri Sachin Chaudhary	Decentralisation and Economic Development.
5	16-2-1960	Professor Nand Dulare Bajpeyi	आधुनिक हिन्दी साहित्य.
<b>Faculty of Science</b>			
1	8-10-1959 9-10-1959	Dr. B. N. Prasad, D. Sc., Head, Mathematics Department, Allahabad University	(a) In the Garden of Numbers (b) Mathematics and Politics

S. No.	Date	Name of the Lecturer	Subject
2	16-10-1959 17-10-1959	Shri B. D. Tilak	(a) Synthesis of a new range of Quinonoid Dyes for cellulose and Acetate (b) Synthesis of Condensed Thiophenes
3	11-12-1959 12-12-1959	Dr. Salim Ali. Bombay Natural History Society, Bombay	(a) The Field Study of Birds (b) Bird Migration
4	9-1-1960	Professor K. N. Kaul, Director of National Botanical Gardens, Lucknow	Reclamation of Salt Lands
5	27-1-1960 27-1-1960 28-1-1960	Shri Chhotubhai Suthar, Vallabh-Vidyanagar	(a) Stars and Planets (b) Demonstration (c) Our Universe
6	9-2-1960 10-2-1960	Dr. M. L. Roonwal, Director of Zoological Survey of India, Calcutta	(a) How ANIMALS are scientifically named (b) Social Life and Caste Determination in Termites

## Faculty of Education and Psychology

1	28-7-1959	Swami Ranganathananda Ramkrishna Mission, Delhi	The objectives of National Education in India
2	10-9-1959	Shri Suresh Joshi of Baroda University	कवितानुं शिक्षण
3	1-10-1959	Shri Santilal Thakar of Shukla Tirth	मातृभाषानुं शिक्षण
4	19-11-1959	Shri Ranjit Patel of Baroda University Baroda	भक्ति काव्योनुं परिशिलन
5	27-11-1959 to 29-11-1959	Dr. L. A. Hill, British Council	Linguistics
6	28-11-1959	Dr. L. A. Hill, British Council	What does the English teacher need in order to be able to use the structural approach effectively?
7	3-12-1959	Professor Hans Simons	New Trends in General Education
8	19-12-1959	Shri H. V. Amin Works Manager, Gujarat Rubber Works, Baroda	Rubber



S. No.	Date	Name of the Lecturer	Subject
9	19-12-1959	Dr. W. J. Gedney, Professor of Linguistics, New York State University, New York, U. S. A.	(a) Technique of Linguistic Analysis (b) Application of Linguistics to Language Teaching
10	2-1-1960 to 7-1-1960	Dr. D. H. Spencer, Education Officer, British Council	Phonetics and Speech Training
11	7-1-1960	Professor Walsh, Head of the Department of Education, University of Leeds	Teacher Education
12	8-1-1960	Dr. Frank Irwin of Glasgow University	Teacher Education in Scotland
13	9-1-1960	Dr. Ben Morris, Bristol University	Teacher Education in England

#### Faculty of Commerce

1	20-11-1959	Dr. A. U. Shaikh	Symposium on Cooperation
2	1-12-1959 and 2-12-1959	Shri B. V. Bhatt	(a) Employees' participation in management (b) Marketing and its place in Indian economy during the next 30 years
3	11-1-1960 to 13-1-1960 and 15-1-1960 to 16-1-1960	Dr. A. K. Dasgupta	Capital employment and development planning
4	4-2-1960 and 5-2-1960	Dr. M. B. Desai	Agriculture resources of Gujarat
5	26-2-1960 and 27-2-1960 and 29-2-1960	Shri S. L. N. Sinha	Post-war monetary policy of Reserve Bank of India

S. No.	Date	Name of the Lecturer	Subject
<b>Faculty of Medicine</b>			
1	20-11-1959	Dr. R. Kutumbia	History of Ancient Indian Medicine
2	13-2-1960	Dr. S. J. Mehta	Surgical management of case of Jaundice
3	16-2-1960	Professor F. A. E. Craw	Biology of Multiple Births
4	27-2-1960	Dr. B. B. Yodh	Diabetes
<b>Faculty of Technology and Engineering</b>			
1	11-12-1959	Shri J. C. Agarwal	(a) Some details of the Preliminary design of cotton spinning machinery (b) Manufacturing details of ring frame spindles
2	18-1-1960	Shri J. V. Patel	(a) Foundry layouts (b) Equipment and working
3	2-2-1960	Shri R. N. Joshi	Pre-stressed concrete (two lectures)
4	5-2-1960 and 6-2-1960	Shrimati Shakuntala Bhagat	Prestressed concrete bridges
<b>Faculty of Fine Arts</b>			
1	13-1-1960 to 15-1-1960	Shri K. K. Hebber	Painting (Composition)
2	23-1-1960	Shri C. N. Parameswer	Printing Typography
3	5-2-1960 and 6-2-1960	Shri T. S. Mani	Window display
<b>Faculty of Home Science</b>			
1	16-1-1960	Dr. J. C. Marfatia	(a) Parent Child Relationship (b) Behaviour Problem of Children
2	19-1-1960	Dean Helen LeBaron	Place of Home Economics in Iowa State University
3	20-1-1960	Miss E. Moliness	Use of Audio-Visual Aids
4	22-1-1960	Miss Margarette Cormac	Modern Trends in Families in India



S. No.	Date	Name of the Lecturer	Subject
5	7-3-1960	Dr. (Miss) Deulkar	Potential of Home Science in Higher Education
	8-3-1960		Home Science in the Service of the Community
<b>Faculty of Social Work</b>			
1	16-2-1960	Dr. A. D. Pabaney	"Problems of Rural Development and Role of Voluntary Agencies" in 2 Parts
	17-2-1960		
2	8-3-1960	Mr. Richard J.	Use of Group work in the country where mobilization of services is the need
3	15-3-1960	Dr. K. R. Masani	(a) Mental Illnesses as seen in Psychiatric Practice (b) Importance of Mental Hygiene
<b>College of Indian Music, Dance and Dramatics</b>			
1	25-11-1959	Professor Amiya Ranjan Bannerjee	Vocal Classical Music
2	21-12-1959	Shri Yeshwantrao Purohit	Interpretation and Musical values in the Kirana style
<b>Sanskrit Mahavidyalaya</b>			
1	4-2-1960	Pandit Hariram Shastri Shukla	(a) सप्तम्यास सृष्टपुत्राणा समवाये चनविभाग (b) द्रहिनुरशमाकत्वम्
<b>Oriental Institute</b>			
1	27-1-1960	Professor Dalsukhbhai Malvania	(a) जैन आगमो (b) जैन आगमोनी टीकाओ
2	5-2-1960	Professor Firoza C. Davar	(a) The Region of Navshirwan (b) The exodus of the Parsis from India to Iran
	6-2-1960		
3	16-2-1960	Dr. H. G. Shastri	(a) मैत्रककालिननुं वल्लभी राज्य (b) मैत्रककालिन संस्कृति
	17-2-1960		
4	18-2-1960	Dr. H. C. Bhayani	(a) अपभ्रंश साहित्य (b) अपभ्रंश भाषा
	19-2-1960		
<b>Department of Museology</b>			
1	9-10-1959	Shri D. P. Gosh	(a) The Museology Course in India—its organisation and importance

S. No.	Date	Name of the Lecturer	Subject
	11-10-1959		(b) Some important aspects of Indian Art History
	12-10-1959		(c) Terracotes and their Replias
2	19-12-1959	Dr. Motichandra	(a) Cataloguing and indexing of Museum Exhibits (b) Importance of Research and Publications in the Indian Museums
	20-12-1959		
3	11-1-1960	Dr. S. T. Satyamurti	(a) Administrative Problems of the Indian Museums (b) Office methods and preparation of Museum budget (c) Labelling in Museums
	12-1-1960		
4	13-1-1960	Dr. K. N. Puri	(a) Some good examples of foreign Museums (b) Exhibitions—their organisation and educational importance (c) The problems of the National Museum of India
	21-1-1960		
	22-1-1960		
	23-1-1960		
5	4-2-1960	Dr. S. P. Srivastava	(a) My impressions about the American and European Museums (b) Latest Developments in Museum Technique and Museology
5	5-2-1960		
<b>Baroda Sanskrit Mahavidyalaya</b>			
1	20-7-1959	Shri Upendrabhai J. Veda Vyas	Sandesara
2	11-10-1959	Shri Bhagwansingh Suryasingh	Kalidas
3	5-12-1959	Shri Vasudeo Dwivedi	Importance of Sanskrit Studies
<b>Maharaja Sayajirao Memorial Lectures</b>			
1	15-2-1960	Shri G. L. Mehta	Planning and Freedom
2	22-2-1960	Professor R. C. Parikh	(a) आनंदमीमांसा—परिभाषा, व्याख्या अने विषयक्षेत्र (b) रसानुभवनो आनंद (c) कर्मयोगनो आनंद अने आध्यात्मिक अनुभवनो आनंद
	23-2-1960		
	24-2-1960		



### 3 Deputation to Conferences

The following members of the University staff were deputed to attend the Conferences shown against their names, as delegates of the University during the period from the 1st July, 1959 to the 31st March, 1960 :

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
1 Dr. A. G. Javadekar (Faculty of Arts)	Entretiens of the International Institute of Philosophy, Paris and the Indian Philosophical Congress held at Mysore from the 22nd August to the 1st September, 1959
2 Dr. C. V. Ramkrishnan (Faculty of Science)	Golden Jubilee Symposiums on Biology and Bio-chemistry of Microorganism and Enzymes and Vitamins, held in the last week of August at the Indian Institute of Science, Bangalore
3 Professor B. J. Sandesara Dr. U. P. Shah (Oriental Institute) Dr. S. S. Bhawe, Dr. (Kumari) S. A. Nachane Dr. S. G. Kantawala (Faculty of Arts)	Twentieth Session of the All-India Oriental Conference under the Joint auspices of the Government of Orissa and the Utkal University held at Bhubaneswar on the 2nd, 3rd and the 4th October, 1959
4 Kumari V. S. Telang (Faculty of Social Work)	All India Social and Moral Hygiene Conference held at Ludhiana from the 8th to the 10th October, 1959
5 Dr. A. G. Javadekar Dr. (Kumari) S. H. Divetia (Faculty of Arts)	Ninth Session of the Philosophical Association, held at Poona from the 16th to the 18th October, 1959
6 Shri M. B. Achwal (Faculty of Technology and Engineering)	Annual Town and Country Planning Seminar held at Bombay from the 19th to the 26th October, 1959
7 Shri L. J. Bhatt Dr. M. B. Buch (Faculty of Education and Psychology)	Annual Conference of the All-India Educational Vocational Guidance Association held at Patna from the 20th to the 22nd October, 1959

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
8 Professor B. J. Sandesara (Oriental Institute) Dr. R. M. Patel, Shri I. A. Dave, Shri S. D. Parekh (Faculty of Arts)	Twentieth Session of the Gujarati Sahitya Parishad held at Ahmedabad from the 23rd to the 25th October, 1959
9 Shri K. M. Sharma (Faculty of Social Work)	Tenth National Seminar on Programmes of Social Education and their Administration, held in Gargoti, Kolhapur, from the 23rd to the 29th November, 1959
10 Shri K. M. Sharma (Faculty of Social Work)	Sixteenth All India Adult Education Conference held in Shri Mouni Vidya-pith Gargoti, Kolhapur, on the 1st and the 2nd December, 1959
11 Shrimati Renuka Mukerji (Faculty of Home Science)	First Conference proposed by Federation of All India Organisations for Children held at Bombay on the 5th and the 6th December, 1959
12 Professor A. R. Chavan Shri A. R. Mehta (Faculty of Science)	Symposium on 'Algae' held under the joint auspices of the Indian Council of Agricultural Research and the UNESCO at New Delhi from the 7th to the 13th December, 1959
13 Shri S. H. Joshi (Faculty of Arts) Shri M. B. Achwal (Faculty of Technology and Engineering)	All India Writers' Conference held in Madras from the 16th to the 20th December, 1959
14 Shri J. K. Motwani (Faculty of Social Work)	All India Leprosy Workers' Conference held at Bombay on the 17th and the 18th December, 1959
15 Dr. B. A. Sayed (Faculty of Medicine)	Meeting of the Indian Association of Pathologists held at Poona on the 18th, 19th and 20th December, 1959



<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
16 Shrimati Indra S. Tayal ( Faculty of Social Work )	Urban Community Development Seminar held at Hyderabad from the 24th to the 31st December, 1959
17 Professor U. N. Singh, Kumari K. Savithri, ( Faculty of Science )	Twenty-fifth Annual Conference of the Indian Mathematical Society held at Allahabad from the 25th to the 27th December, 1959
Shri Hari Shankar ( Faculty of Technology and Engineering )	
18 Shri G. G. Dadlani ( Faculty of Social Work )	Meeting of the teachers of the School of Social Work held at Hyderabad (Deccan) on the 25th and the 26th December, 1959
19 Professor D. V. Gogate Dr. N. S. Pandya ( Faculty of Science )	Twenty-fifth Annual Meeting of the Indian Academy of Sciences held at Annamalainagar from the 29th to the 28th December, 1959
20 Shri R. Krishnamurty ( Faculty of Arts )	Twenty-second Session of the Indian History Congress held at Gauhati, Assam from the 27th to the 29th December, 1959
21 Shri B. L. Shanbhogue ( Oriental Institute )	All India Educational Conference held at Jabalpur from the 27th to the 31st December, 1959
22 Professor C. H. Khadilkar ( Faculty of Technology and Engineering )	Fifth Indian Standards Convention held at Hyderabad from the 27th December, 1959 to the 2nd January, 1960
23 Professor T.K.N. Menon Professor S. N. Mukerji Dr. ( Kumari ) Prem Pas- richa ( Faculty of Education and Psychology )	Tenth World Conference of the New Education Fellowship held at New Delhi from the 28th December, 1959 to the 6th January, 1960

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
24 Dr. A. G. Javadekar Dr. ( Kumari ) S. H. Divetia ( Faculty of Arts )	Indian Philosophical Congress held at Cuttack from the 28th to the 31st December, 1959
25 Shri H. C. Malkani ( Faculty of Arts )	All India Economic Conference held at Annamalainagar on the 30th and the 31st December, 1959
26 Professor R. C. Mehta ( College of Indian Music, Dance and Dramatics )	Second Session of the All India Folk-Culture Conference held at Bombay from the 24th to the 30th December, 1959
27 Dr. H. L. Patel ( Faculty of Medicine )	Association of Surgeons of India held at Jaipur in December, 1959
28 Dr. A. H. Somjee Shri K. S. Desai ( Faculty of Arts )	Indian Political Science Conference held at Jaipur on the 29th to the 31st December, 1959
29 Dr. J. D. Pathak ( Faculty of Medicine )	Association of Physiologists and Pharmacologists of India and the meeting of the Indian Council of Medical Research held at Poona in the last week of December, 1959
30 Shri H. C. Malkani ( Faculty of Arts )	Third All India Labour Economic Conference held at Madras from the 2nd to the 4th January, 1960
31 Professor D. V. Gogate Dr. N. S. Pandya ( Faculty of Science )	Fourth Annual Symposium on Spectroscopy held at Bombay on the 2nd January, 1960
32 Professor Suresh Sethna Dr. A. R. Chavan Professor D. V. Gogate Dr. C. Mehta Dr. J. S. Dave Dr. N. S. Pandya Dr. C. H. Pathak	Indian Science Congress held at Bombay from the 3rd to the 9th January, 1960



<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
Shri C. G. Khatri	
Shri H. S. Desai	
Shri B. K. Shah	
Shri J. M. Lohar	
Shri K. N. Trivedi	
Shri A. R. Patel	
Shri S. S. Lele	
Shri M. G. Patel	
Shri M. V. Shah	
Shri G. H. Patel	
Shri J. R. Pandya	
Shri R. D. Rao	
Shri P. K. Korane	
Kumari K. B. Ambegaokar ( Faculty of Science )	
Shri L. J. Bhatt, Dr. A. S. Patel, Dr. (Shrimati), Pramila Phatak ( Faculty of Educa- tion and Psychology ) Dr. A. M. Talati, Shri R. V. Joshi, Shri N. H. Shah, Shri B. R. Panchal ( Faculty of Techno- logy and Engineering )	
33 Professor U. N. Singh ( Faculty of Science )	Conference on Mathematical Education in South Asia held at Bombay from the 20th to the 27th January, 1960
34 Shri H. J. X. Fernandes ( Faculty of Education and Psychology )	Séminar on Educational Psychology held at Delhi from the 20th to the 30th January, 1960
35 Dr. S. D. Ambegaonkar ( Faculty of Medicine )	Annual Conference of the Association of Physicians held jointly with the Cardio- logical Society of India, Association of Paediatricians of India, Neurological Society of India and Indian Associa- tion of Chest Diseases at New Delhi on the 29th January, 1960

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
36 Dr. S. L. Bafna ( Faculty of Science )	A Symposium on High Polymers at the Association for the Cultivation of Science held at Calcutta on the 30th and the 31st January, 1960
37 Dr. N. S. Pandya ( Faculty of Science ), Dr. R. V. Joshi ( Faculty of Technology and Engineering )	Symposium on Solid State Physics held under the auspices of the Indian Insti- tute of Science and the Physical Re- search Committee of the Council of Scientific and Industrial Research at Bangalore from the 1st to the 3rd February, 1960
38 Dr. S. C. Misra ( Faculty of Arts )	Thirty-fifth Session of the Indian Historical Records Commission held at New Delhi on the 4th and the 5th February, 1960
39 Dr. J. S. Dave ( Faculty of Science )	Twenty-ninth Annual Meeting of the National Academy of Sciences held at Gorakhpur from the 7th to the 9th February, 1960
40 Professor P. J. Madan ( Faculty of Technology and Engineering ) Professor L. B. Shah ( Polytechnic )	Nineteenth Annual Conference of the Association of Principals of Technical Institutions ( India ) held at Gauhati, Assam from the 18th to the 20th February, 1960
41 Dr. A. S. Patel ( Faculty of Education and Psychology )	Third Bombay State Vocational Guid- ance Conference held at Ahmedabad on the 20th and the 21st February 1960
42 Shri S. K. Shah ( Faculty of Science )	Symposium on Low Energy Nuclear Physics held at Andhra University, Waltair from the 24th to the 26th February, 1960



<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
43 Professor M. B. Dave ( Faculty of Technology and Engineering ) Shri C. C. Mehta Shri R. P. Bhatt Shri M. J. Bhatt ( College of Indian Music, Dance and Dramatics )	A Symposium and an Exhibition on Theatre Architecture organised by the Bharatiya Natya Sangh at New Delhi on the 29th February and the 1st March, 1960
44 Shri R. F. Kothari ( Faculty of Technology and Engineering )	Seminar on 'Public Administration—its study, Teaching and Research' organis- ed by the Indian Institute of Public Administration at New Delhi from the 7th to the 12th March, 1960

## CHAPTER XXVI—GENERAL EDUCATION DEPARTMENT

### 1. Brief History

During the formative years of the University when new Faculties were being established and the old ones consolidated, considerable thinking was done on the place General Education should have in the total academic programme of the University. It was felt that while a University should make increasing provision for specialised studies in the various fields of modern knowledge, it should not lose sight of the basic requirement that every student, no matter what his speciality, has to be given some understanding of the nature of the physical world in which he lives, an appreciation of the complex social relationships by which he is surrounded, and a grasp of human values which can be developed through contact with Art, Literature and the Humanities. In other words, it was necessary to find a place for an element of liberal education along-side highly specialised studies.

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

### 2. Organisation

A separate Department of General Education was created in June, 1957 with a Co-ordinator and some staff. The department functioned



under the direction of the General Education Committee appointed by the Syndicate. This Committee met and settled important questions relating to the working of the programme, e.g., the preparation of reading matter, methods of examination, tests, grades etc. During the year under report the staff of the department consisted of one Co-ordinator, one Assistant Co-ordinator, Special Lecturers, two class III and one class IV servants. Over fifty members of the staff from the various departments of the University also participated in the preparation of the reading material and shared the teaching work.

### 3. Buildings

The department of General Education is at present housed in the Faculty of Education and Psychology. The Ford Foundation of U. S. A. has given the University a grant of 4,30,000 U.S.A. dollars for the construction of a new building for the General Education Centre, and for equipment and books. The construction of the building, which is estimated to cost about Rs. 15 lakhs, was started in the year 1957-58 and an expenditure of about Rs. 4,40,067-08 was incurred upto the 31st March, 1960.

### 4. Students under the Programme

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

Course	Number
<b>1. PREPARATORY COURSE:</b>	<b>1,270</b>
Arts	400
Science	480
Commerce	390
<b>2. DEGREE COURSES:</b>	<b>2,186</b>
Arts	692
Science	404
Commerce	631
Technology and Engineering	288
Fine Arts including Music	44
College	
Home Science	127
<b>Total:</b>	<b>3,456</b>

### 5. Syllabus

At the Preparatory Year stage, the entire curriculum is conceived of as a General Education programme allowing, however, for some degree of concentrated study particularly in the case of those students who would later on be specialising in Medicine, Engineering and Science. Thus the Preparatory Course consists of (a) a major programme in literature, art appreciation, social studies and history of science, and (b) a minor programme providing for the introduction of specialisation in Arts, Science and Commerce.

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

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

#### A. Humanities :

##### (i) Literature :

Readings from Modern Indian Literature—Milestones in the development of Indian Literature—Readings from Drama (Sanskrit and English)—Comparative study of theatre and drama.

##### (ii) Fine Arts :

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

##### (iii) Philosophy :

Readings from the Bhagwat Gita—Readings from Modern Philosophy



## (iv) World History :

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

## B. Social Sciences

## (i) Sociology :

Comparative study of marriage, family, kinship—Caste—Social Institutions and their interrelations—Social antecedents of behaviour—Behaviour traits and attitudes—Group behaviour—Psychology of leadership and invention—Occupational groups—Study of industrial conflict—Social conflicts—Prejudices—International tensions—Social Control.

## (ii) Political Science :

Problems of Indian Democracy—Political Doctrines—International Politics since 1919.

## (iii) Economics :

Indian Five Year Plans—Indian Economic Problems—Indian Agriculture Problems—Problems of Indian Industry.

## C. Natural Sciences

Man and his environment—Nature and Evolution of Life—Nature of the Physical Universe—The Solar System and the Universe—The Earth—The Atmosphere—Air and Water—Matter and Energy—The Atom—Atomic Energy—Man's exploitation of the natural resources—Power resources—Agricultural resources—Conquest of air.

## D. The following concluding topics are common to the General Education syllabi of all students :

(i) The Scientific Method,

(ii) Science and Society,

(iii) Science and Literature.

## CHAPTER XXVII—STUDENTS' WELFARE ACTIVITIES

## 1. University Halls of Residence

The general policy of the University is to distribute students from its various Faculties in different halls of residence so that every hall of residence would have students from different Faculties. The University looks upon this as an important step to promote amongst the students of the University interest in Faculties other than their own. During the year 1,168 students were in residence. In all there are now 9 Halls of Residence, including Shri Keshavprasad Hostel, a rented building. However, it needs to be stressed that a large number of students who were admitted to different courses could not be admitted because of want of space. It is hoped that more seats would be available in course of time.

The total number of students in the Halls at the end of the year 1959-60 was 1,168 as shown in the following 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	Shrinati Sarojini Devi Hall	Shrinati Hansa Mehta Hall	Total
1 Arts	8	9	11	3	9	9	0	42	4	95
2 Science	12	20	20	8	13	18	0	17	5	113
3 Commerce	13	15	12	7	10	11	0	0	0	68
4 Education and Psychology	0	9	10	4	6	4	0	8	8	49
5 Medicine	16	12	20	8	44	21	0	22	6	149
6 Technology and Engineering	48	40	40	29	36	66	27	1	2	289
7 Fine Arts	0	4	6	0	0	1	0	3	5	19
8 Home Science	0	0	0	0	0	0	0	78	84	152
9 Social Work	0	5	6	0	1	5	0	4	5	26
10 Preparatory Unit	20	31	19	7	32	25	0	49	2	185
11 College of Indian Music, Dance and Dramatics	1	1	1	0	0	0	0	7	3	13
Total ...	118	146	145	66	151	160	27	231	124	1,168



Administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and the Wardens' Committee. One of the Wardens continued to work as Chief Warden. It was decided to set up a central committee for various activities under the general direction of resident students. This year five committees were functioning to look after and to organise student activities *viz.* (1) Central Committee, (2) Central Food Committee, (3) Central Committee for Students' Health, (4) Central Committee for Cultural Activities, (5) Central Sports Committee. 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.

All the Halls have been provided with well-equipped reading rooms. They have small libraries also. Students are 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.

As in the previous years the cultural and social activities pay an important part in the formation of 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; some 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 the Independence Day Celebrations on the 15th August, 1959 and Annual Day of the Hostels on the 23rd March, 1960. The following were some of the important items of interest:

1. A Dinner on the 15th August, 1959—Independence Day;
2. A general musical programme in Maharshi Arvind Hall on the 6th September, 1959;
3. A general celebration of Republic Day and a Dinner in different Halls on the 26th January, 1960.

### 3. 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 Shri Sayaji 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. They are also requested to advise the parents of the students concerned who were found to be suffering from tuberculosis or heart diseases to give them immediate treatment for the diseases. During the year the Medical check up was done from the 19th August, to the 24th September, 1959 and in all 2,809 students—2,338 boys and 471 girls—were examined.

### 3. Physical Education

#### (1) Staff:

The department of Physical Education organised and conducted various physical education activities such as A.C.C., Major Games, Athletics, Wrestling, Swimming, Boating, Sports, Tournaments, Labour and Social Service Camps and Campus Work Projects. During the year four qualified Physical Instructors, three Swimming Trainers and one Boating Trainer were working in this department under the supervision and guidance of the Director of Physical Education who also acts as the Ex-Officio Secretary of the University Board of Sports.

#### (2) Auxiliary Cadet Corps:

A.C.C. training is compulsory for all the students excepting those who are selected for Major Games, Swimming, Boating, Athletics, Wrestling, Box-



ing and N.C.C. In all 1,942 students including 348 girls students were imparted training by 4 Group Commanders, 8 A.C.C. Officers and 99 Student Leaders under the Command of Officer Commanding, 6th Bombay Battalion N.C.C., Baroda.

### (3) Major Games :

During the year more than 500 students including girls, from various Faculties and Institutions of the University participated in Major Games such as Cricket, Hockey, Foot-Ball, Volley Ball, Basket Ball, Kho-Kho, Hu-Tu-Tu, Tennis, Badminton, Table-Tennis, Teni-Koit, Throw Ball and Net Ball. These activities were organised and conducted by the Physical Instructors and Officers-in-Charge of Cricket, Tennis, Badminton and Table-Tennis.

### (4) Swimming and Boating :

During the year, 598 students participated in Swimming and 182 students in Boating. These two activities were organised and conducted by the Officers-in-Charge of Swimming and Boating and the trainers. Swimming and Boating competitions were also held during the second term of the year. Dr. Jyotindra M. Mehta, Vice-Chancellor of the University presided over the prize distribution function and Shrimati Saralaben Mehta gave away the prizes and trophies to the Winners.

### (5) Annual Sports :

As a part of the University Youth Festival, Annual Sports were held from the 30th November to the 2nd December, 1959. More than 400 students, men as well as women, from various Faculties and Institutions participated in different Tract and Field Competitions. Dr. C. S. Patel, Pro-Vice-Chancellor of the University, gave away the prizes and trophies to the winners. Individual championships in Athletics, Swimming and Boating were won by the students as under :—

Winners	Faculty/Institution	Trophy
ATHLETICS		
1. Shri A. J. Rajeshirke	Faculty of Science	Silver Shiled
2. Kumari Manda Ambegaokar	Faculty of Arts	Silver Shield
SWIMMING		
3. Shri A. R. Shetty	Faculty of Science	Shrimati Hansa Mehta Shield

winners	Faculty/Institution	Trophy
4. Kumari Kumudini Datir	Faculty of Arts	Dr. Jivraj N. Mehta Shield

### BOATING

5. Shri Ashok Katdare	Faculty of Commerce	Shrimati Hansa Mehta Shield
6. Kumari J. V. Sheth	Faculty of Arts	Dr. Jivraj N. Mehta Shield

### (6) Inter-University Tournaments :

This year fifteen University teams viz. Cricket, Foot Ball, Hockey, Basket-Ball, Volley Ball, Badminton (Men and Women), Table Tennis, Kho-Kho (Men and Women), Kabaddi, Wrestling, Boxing, Athletics and Swimming participated in the Inter-University Tournaments. The Kho-Kho team (Men) were runners-up in the All India Inter-University Kho-Kho Tournaments.

Inter-University Foot Ball Tournament (West Zone and All India Semi-finals) were held at Baroda from the 27th September to the 4th October, 1959 under the auspices of the University. In this tournament Nagpur, Marathwad, Karnatak, Poona, Bombay, Gujarat and Baroda participated. In the Semi-finals Osmania, the winners of the South Zone defeated Bombay, the winners of the West Zone by 1-0 and qualified for the Finals. Both the teams were presented to Dr. Jyotindra M. Mehta, Vice-Chancellor of the University before the commencement of the match.

### (7) The Sixth Bombay State Sports Festival :

The Department gave its full co-operation in organising the Sixth Bombay State Sports Festival held on the University Sports Ground from the 29th December, 1959 to the 2nd January, 1960. Shri Morarji Desai, the Finance Minister, Government of India, inaugurated the Festival for the 'A' group on the 29th December, 1959 and Shri Hitendra Desai, Education Minister of Bombay, State inaugurated the Festival for the 'B' group on the 31st December, 1959. From 43 districts of the Bombay State 2,500 competitors including 90 girls had taken part in this Festival. Dr. J. M. Mehta, Vice-Chancellor of the University presided over the concluding function and gave away the prizes and trophies 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 had 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 last year and the buildings have been completed during the year under report.

The activities carried out by each unit are given below :

##### (1) 6th Bombay Battalion N.C.C.

This Unit was raised from 3 Company Battalion to 4 Company Battalion in the year 1958 with an authorised strength of 15 Officers and 625 cadets. This year it imparted training to the cadets from the 28th June, 1959 to the 14th February, 1960. This Unit and the 9th Bombay Battalion N.C.C. Anand held their combined Annual Training Camp at Rajpipla from the 21st December, 1959 to the 4th January, 1960. It was attended by 519 cadets and 11 N.C.C. Officers. Several competitions were held and a Battle Demonstration was also displayed during the Camp.

The Unit took part in N.C.C. Week Celebrations during the first week of December, 1959. It arranged shooting competitions for Western Command and Bardwan Trophies on the 10th January, 1960 wherein all the Units except Girls Troop participated. The Unit won both the above trophies.

The Unit conducted B and C certificate examinations. The details of this are as under :

Examination	Number appeared	Number passed	Percentage of the result
1. B Certificate	140		
2. C Certificate	12	126	90%
		12	100%

Two of the members of the teaching staff completed their Pre-Commission training and joined the Unit in January, 1960. With a view to select cadets for Armed Forces and to improve the quality of the N.C.C. cadets who join the Armed Forces, an Officers' Training Unit was started this year for N.C.C. cadets. Three cadets have passed through the preliminary selection board and medical examinations and are likely to be selected for their special training with the Unit from June, 1960.

With a view to impart military training to about 1,200 cadets, the N.C.C. Directorate, Delhi, has sanctioned a new scheme of starting N.C.C. Rifles Unit. The Unit has been allowed to raise 3 Junior Division Troops in Baroda and one Troop in Broach District for the students of (a) Pratap High School, (b) Jayashri Model Junior High School and (c) Maharani Chinnabai Girls High School at Baroda and (d) Rajpipla High School at Rajpipla, District Broach.

A sub-troop viz. the 26th Bombay Girls Troop N.C.C. Baroda has been also allotted to this Unit. It is exclusively meant for the students of the S. N. D. T. College. It started functioning since the 2nd September, 1959 with the full authorised strength of 45 cadets.

In the N.C.C. Expansion Scheme, the University has been also allowed to raise one Signal Company viz. the 20th Bombay Signal Section N.C.C. Baroda for 120 cadets. It will provide scope for different types of Units in Baroda and will start its activities from June, 1960.

##### (2) 5th Bombay Girls Troop N.C.C.:

The Unit started its training in June, 1959 with an actual strength of 3 Officers and 135 cadets. The combined Annual Training Camp for the Girls Division was held at Jalna from the 21st December, 1959 to the 4th January, 1960. It was attended by two N.C.C. Lady Officers and 120 Girls Cadets of the troop. The troop also participated in Flag March arranged by the Senior Unit 6th Bombay Battalion N.C.C. on the 6th December, 1959. It also took part in Ceremonial Parade held at the inauguration of the N.C.C. Week on the 8th December, 1959 and was inspected by the Vice-Chancellor of this University. Cadets were also taken to Vasad on the 6th February, 1960 for Map Reading excursion.

The following is the result of G Part I and G Part II Certificate Examinations.



Examination	Number appeared	Number passed
G Part I	38	29
G Part II	3	3

(3) 18th Engineering Platoon N.C.C.:

The Unit enrolled 60 cadets and imparted training to them from the 2nd July to the 25th December, 1959. The Unit Cadre Camp was held at Headquarter Bombay Engineering Group, Kirkee, from the 19th to the 28th October, 1959. It was attended by 1 N.C.C. Officer and 19 N.C.C. cadets. The Combined Annual Training Camp was also held at Kirkee from the 26th December, 1959 to the 8th January, 1960 and was attended by 2 N.C.C. Officers and 56 cadets. During the Annual Training Camp, 'B' and 'C' certificate examinations were held on the 3rd and the 4th January, 1960. The results are as under:

Examination	Number appeared	Number passed
'B' Certificate	28	8
'C' Certificate	9	6

The Unit Day was celebrated on the 13th February, 1960, when Dr. J. M. Mehta, Vice-Chancellor, gave away the three Trophies—(1) Best Engineer, (2) Best Cadet and (3) Best Athlete to the prize winners in the respective items.

Two ex-cadets and one cadet of the Unit have been selected for defence services. The Annual Inspection of the Unit was carried on the 2nd September, 1959, by Lt. Col. J. D. Karwal, Officer Commanding, 6/5 GR (FF).

(4) 20th Bombay Medical Company N.C.C.:

This Unit was started from the 23rd July, 1956, with an authorised strength of one Officer and 60 cadets. A detachment of the Unit was started in the year 1957-58 in B. J. Medical College, Ahmedabad. This detachment was converted into an independent Medical Unit—26th Medical Company N.C.C. in October, 1959.

The Unit enrolled 57 students from the Medical College, Baroda, B. J. Medical College, Ahmedabad, and the Faculty of Science, Baroda, and started the parades in the last week of June, 1959. It celebrated the N.C.C. Week in December, 1959, along with other Units in the Station.

It held its Annual Training Camp at Ahmedabad from the 24th December, 1959 to the 6th January, 1960. The Camp was attended by 2 N. C. C. Officers and 76 cadets. Certificate examinations were also conducted during the Camp and the result is as under:

Examination	Number appeared	Number passed
'B' Certificate	26	25
'C' Certificate	8	5

It celebrated the Company Day in February, 1960. Competitions were held and prizes and trophies were also distributed.

(5) 22nd Bombay Girls Troop N.C.C.:

This Unit was raised and placed under the control of the 6th Bombay Battalion N.C.C., with effect from the 4th November, 1957. Its authorised strength is 3 Lady Officers and 135 cadets. This year the training was imparted to the cadets from the 28th June, 1959 to the 14th February, 1960.

The Unit took part in Ceremonial Parade, Flag March and entertainment programmes organised during N.C.C. Week celebrations in the first week of December, 1959. 2 Lady Officers and 115 cadets of this Unit attended the Annual Training Camp of all Senior Division Girls Troops, held at Jalna from the 24th December, 1959 to the 4th January, 1960. The cadets took part in various competitions and programmes organised during the Camp. One of the cadets was sent to Chopasam Jodhpur to attend the Neighbouring States Annual Training Camp held from the 3rd to the 14th November, 1959. Another was sent to participate in the Republic Day Parade held at Delhi on the 26th January, 1960. 30 cadets took part in Baroda City Ceremonial Parade and Flag March on the 26th January, 1960.

The G Part I Certificate examination was held on the 7th and 8th February, 1960, for the first time since the raising of this troop. 31 cadets of this Unit appeared and passed the same 4 securing 'A' Grade, 25 'B' Grade and 2 'C' Grade.

One lady teacher of the Faculty of Home Science has been selected for Pre-Commission Training Course which is to start on the 2nd August, 1960 at the Officers, Training Centre, Kamptee. On successful completion of the course by the end of October, 1960, she will be posted as N.C.C. Lady Officer in this Unit.



## 5. Students' Common Hall

Two Students' Common Rooms—one for men students and the other for women students have been built on the campus. Cafetarias are also attached to both the rooms. The rooms provide facilities for indoor games such as Carrom, Draughts, Chess, Table Tennis, etc. Reading materials like daily newspapers, periodicals and a small collection of books are also provided in the rooms. Committees consisting of the members of the teaching staff look after the arrangements of the rooms. The rooms are also used for meetings of different students' associations, social functions, lectures, indoor games and tournaments.