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M. S. University of Baroda

Twentieth
Annual Report

1968 - 69

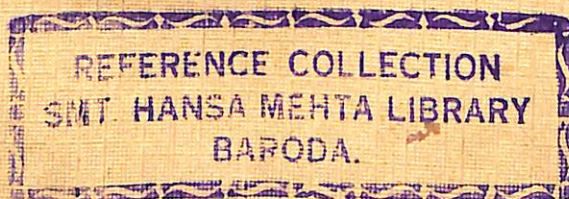
**The Maharaja Sayajirao University
of Baroda**



TWENTIETH ANNUAL REPORT

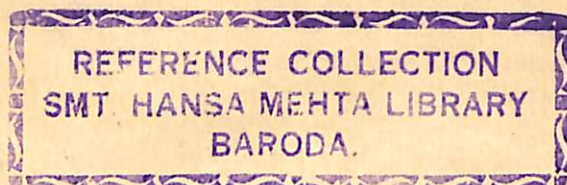
1968-69

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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

TWENTIETH ANNUAL REPORT, 1968-69

(1st April, 1968 to 31st March, 1969)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



TWENTIETH ANNUAL REPORT, 1968-69

INTRODUCTION

The Maharaja Sayajirao University of Baroda was established in 1949, though the idea of establishing such a University had been engaging the attention of the former Government of Baroda State since 1909. Certain schemes for the establishment of the University were framed but none of them materialised. Then in 1925 the Baroda University Commission made out a strong case for the immediate establishment of a Unitary Residential University having the Faculties of Arts, Science, Technology and Agriculture, Economics, Commerce and Administration. Besides these, the University was to have an Institute for Oriental Studies, one for Gujarati Studies, a School of Fine Arts, a School of Nursing and a School of Domestic Science. Provision was also to be made for a number of extension programmes, notably of the library movement as one. Circumstances at that time were not favourable to the establishment of a separate university, but the idea was not given up.

During the two decades that followed the following institutions for higher education were established:—

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, the late His Highness Maharaja Sir Pratapsinh Gaekwad revived the idea of the University and appointed a Committee to consider the question of the early establishment of the University. The Committee submitted its report to the Government of Baroda towards the end of the year 1948 and recommended the establishment of a primarily teaching and residential university with power to affiliate mofussil colleges. It favoured the tutorial system of instruction.

All the existing institutions of higher education including the Central Library, the Oriental Institute and the Kalabhavan were to be taken over by the University. The Committee also recommended that the Government should give a block grant of Rs. 25 lakhs annually to the University for the first five years.

The Government of Baroda in their Order No. (R). 169-39 dated 21st February, 1949, decided to establish a residential University for Baroda and to affiliate to it the Colleges at Visnagar, Petlad and Navsari which were then situated in the State of Baroda. With the subsequent merger of the Baroda State with the State of Bombay, the jurisdiction of the University came to be restricted to the area within a radius of ten miles from the University Office. The University started working on 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 reorganised into the six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce, Technology and Engineering. The First Year and the Intermediate Classes in Arts and Commerce were organised into a separate institution called the Intermediate College. Three new Faculties of Fine Arts, Home Science and Social Work were also started from June 1950. The management of the Baroda Sanskrit Mahavidyalaya and the Gujarati Section of the Old Baroda High School were taken over by the University from the then Government of Bombay in 1951. To start with, the University followed the Bombay University courses and standards of admissions, examinations, etc. The first examinations of the University were held in March-April 1951.

Growth of Student Enrolment

Student Enrolment: When the University first started functioning in April 1949, it had as its total strength 2,962 students, of whom 131 were post-graduate students, 902 degree class students and the remaining reading for the under-graduate, diploma or certificate courses. In the next nineteen years, the total enrolment

of students in the University has risen from 2,962 to 14,386, registering an increase of 11,424 or almost a five-fold increase. The average yearly increase in student enrolment since 1949 has been nearly 602.

In 1950, the total number of men students was 3,508. This number has increased to 10,968 in 1968-69 registering a rise of about three times. The rise in the enrolment of women students has been even more remarkable. Between 1950 and 1968-69, the enrolment of women students in the University has increased from 484 to 3,418 a seven times rise. On an average, the annual increase in the enrolment of women students in the University between 1950 and 1969 has been about 174.

The enrolment trends over the last nineteen years in the University are indicated in the following table:

<i>Year</i>	<i>Total enrolment</i>	<i>Increase/decrease over the preceding year</i>	<i>Percentage increase/decrease</i>
1950-51	2405	—	—
1951-52	3398	993	41.2
1952-53	3992	594	17.5
1953-54	4585	593	14.9
1954-55	5600	1015	22.1
1955-56	4883	-717	-12.4
1956-57	4968	85	1.4
1957-58	5785	817	16.5
1958-59	6858	1073	18.5
1959-60	7726	868	12.7
1960-61	8214	488	6.3
1961-62	8974	760	9.2
1962-63	10134	1160	12.9
1963-64	10315	181	1.6
1964-65	10954	639	6.2
1965-66	11629	675	6.1
1966-67	13223	1594	12.1
1967-68	14235	1012	7.1
1968-69	14386	151	1.1

Sex-Ratio in Different Faculties: The developmental picture of the sex-ratio in the case of students in the different Faculties and Institutions of the University for the years 1950-51, 1960-61 and 1968-69 is given below:—

	1950-51		1960-61		1968-69	
	Men %	Women %	Men %	Women %	Men %	Women %
Arts	72.1	27.9	65.7	34.3	44.7	55.3
Science	—	—	87.5	12.5	75.5	24.5
Education and Psychology	87.2	12.7	63.0	37.0	39.0	61.0
Commerce	—	—	82.6	17.4	84.8	15.2
Medicine	89.8	10.2	82.6	17.4	81.6	18.4
Technology & Engineering	99.6	0.4	99.0	1.0	98.2	1.8
Fine Arts	—	—	83.6	16.4	75.0	25.0
Home Science	—	100.0	—	100.0	0.5	99.5
Social Work	85.8	14.2	75.0	25.0	65.8	34.2
Law	—	—	—	—	91.3	8.7
College of Indian Music, Dance and Dramatics	80.0	20.0	63.3	36.7	40.0	60.0
Baroda Sanskrit Mahavidyalaya	—	—	85.7	14.3	79.1	20.9
Preparatory Units	—	—	80.7	19.3	76.4	23.6
Polytechnic	—	—	99.6	0.4	99.3	0.7
Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	—	—	91.9	8.1

Enrolment in Post-graduate Courses: The enrolment of students in various post-graduate courses provided in different Faculties and Institutions of the University has been showing a steady rise from 1950. In 1950-51, the enrolment in the post-graduate courses was 303, which has gone on increasing every year and becoming 1,359 in 1968-69, registering an over-all increase of 1,056 or 351.7 percent. The average annual increase in the past nineteen years has been about 56 students. The number of post-graduate men students has increased between 1950-51 and 1968-69 by 735 about 278.4 percent, and of women students by 340 or 850 percent.

Growth of Enrolment in Degree Courses: In 1950-51, there were 2,437 students studying in the under-graduate classes of the different faculties and

institutions of the University. The figure for 1968-69 is 11,272. Thus, the under-graduate student population of the University has increased by 8,835 showing a four and a half times increase between 1950-51 and 1968-69. The increase in the case of men students and women students during the same period has been 6,429 (or about 340 percent) and 2,682 (or about 989 per cent) respectively.

Percentages

(Facultywise in reference to the total of number of students in the University)

Faculty	1964-65	1965-66	1966-67	1967-68	1968-69
Arts	12.4	12.0	12.8	12.3	11.6
Science	8.9	8.6	8.9	8.0	9.6
Education and Psychology	2.6	2.7	2.9	2.7	2.9
Commerce	10.9	10.7	9.8	10.6	11.6
Medicine	5.9	5.5	5.8	5.7	4.7
Technology and Engineering	19.0	19.2	18.8	19.3	18.5
Fine Arts	1.4	1.6	1.7	1.5	1.5
Home Science	5.3	5.2	4.4	4.2	4.2
Social Work	0.7	0.7	0.6	0.5	0.5
Law	4.9	4.6	4.1	3.5	3.5
Preparatory Unit (Arts and Commerce)	16.5	8.7	10.1	10.1	11.7
Preparatory Unit (Science)	7.4	7.8	7.8	7.9	7.5
M. K. Amin Arts and Science College and College of Commerce, Padra	—	1.3	1.5	2.6	2.9
College of Indian Music, Dance and Dramatics	0.3	0.3	0.3	0.4	0.6
Sanskrit Mahavidyalaya	0.5	0.4	0.4	0.3	0.3
Polytechnic	10.7	11.1	10.1	9.8	8.5
	100.0	100.0	100.0	100.0	100.0

University Teachers

University Teachers and the Staff-Student Ratio: The total number of teachers (including Assistant Lecturers and Part-time Lecturers) in the Faculties and the Institutions of the University during the year under report was 856 against the total student enrolment of 14,386. This gives an over-all teachers-

student ratio of 1:16.8. The corresponding figures of the University teachers and the staff-student ratio over the last five years are given below:—

Year	No. of University Teachers	Student Enrolment	Staff-Student Ratio
1964-65	795	10,954	1:13.7
1965-66	853	11,629	1:13.6
1966-67	856	13,223	1:15.4
1967-68	874	14,235	1:16.2
1968-69	856	14,386	1:16.8

Hostel and Health Services

Halls of Residence: With the rapid increase in student enrolment, the pressure of demand from students for residential accommodation in the University Halls of Residence has been on increase. The University has been taking all possible steps to increase the hostel facilities for students. In 1949, the University had accommodation for only 400 men students of which 200 were in rented buildings and no accommodation for women students. At the end of the year under review there were 10 halls for men and 4 for women students. There were 2051 men students and 786 women students in the several Halls of Residence. The percentage of the students residing in the University hostels works out to be 19.7. The corresponding figures for the five years are as under:

Year	Students residing in Hostels			Percentage of Resident Students to the Total Enrolment
	Men	Women	Total	
1964-65	1,735	697	2,432	22.2
1965-66	1,912	717	2,629	22.6
1966-67	2,020	769	2,789	21.1
1967-68	2,059	757	2,816	19.8
1968-69	2,051	786	2,837	19.7

Health Service: The health service facilities and medical treatment provided at the University Health Centre Clinic have continued to be availed of by members of the University staff and their families and students. This could be seen from the following figures for the cases treated and the daily average attendance over a period of last five years:—

Year	No. of Cases Treated					Daily Average Attendance
	Staff and their families	%	Students	%	Total Cases	
1964-65	5,282	32.5	10,986	67.5	16,263	44.3
1965-66	5,419	33.4	10,795	66.6	16,214	44.4
1966-67	7,046	38.9	11,055	61.1	18,101	49.8
1967-68	7,133	36.4	12,413	63.6	19,546	53.4
1968-69	9,507	40.1	14,218	59.9	23,725	65.0

Other Developments

In the nineteen years of its existence, the Faculties and the Institutions of the University have made considerable progress. Courses of studies have been revised keeping pace with recent advancements in various fields of knowledge; special emphasis continuing to be laid on tutorials, seminars and home assignments consistent with the special requirements of a teaching university. Efforts are being made to improve conditions, academic and physical, obtaining in the Faculties and Institutions, new departments and new programmes of training and research are being continually added; provision of adequate staff, repairs to old buildings, addition of new buildings, increased grants for equipments and teaching aids, provision for a closer contact between teachers and students, the creation of a suitable academic climate, development of library and laboratory facilities for the staff and the students, increasing research output, introducing innovations in teaching and examination procedures and the maintenance of students' discipline have continued to receive the closest attention at the hands of the University authorities.

The University has a good record of achievements and innovations. Three new Faculties—that of Fine Arts, Home Science and Social Work—were established in the year 1950 and that the Faculty of Law in the year 1961. A new College—Shri Manibhai Kashibhai Amin Arts and Science College and College of Commerce—was started at Padra in the year 1965.

With the help of financial assistance from the University Grants Commission, the University was able to strengthen and consolidate the teaching and research activities in the various departments of Humanities, Social Sciences and Sciences. The University also started the three year degree course in Arts, Science and Commerce and post-graduate courses in Bio-chemistry, Microbiology, Geology and Home Science. The Departments of Archaeology and Ancient History, and Museology were also developed with the help of grants received from the University Grants Commission. As of 1964 the Department

of Education has been upgraded as a Centre of Advanced Study in Education (CASE) to carry on researches on problems of Education on an All India basis. The Students' Counselling Centre and the Examination Reform and Research Unit were established in the Second Plan. Some buildings for teaching purposes, and residential accommodation for students and teachers were constructed with the help of substantial grants from the University Grants Commission in the Second and the Third Plan Periods.

On account of an expansion scheme in each of the Second and the Third Plan periods, the Faculty of Technology and Engineering increased the yearly intake of students from 75 to 300 in the degree courses in Civil, Mechanical and Electrical Engineering. Two new Departments viz. Chemical Engineering and Metallurgical Engineering were established in the years 1963 and 1966 respectively. The Faculty has also been recognised as a Centre for Technical Teachers' Training. It has also started 10 post-graduate courses in the different branches of Applied Mechanics and Civil, Mechanical, Electrical and Textile Engineering, for which grants are being provided by the University Grants Commission. A Polytechnic was established in the year 1957 to conduct diploma courses in Civil, Mechanical and Electrical Engineering. Two schemes approved by the All India Council of Technical Education and the University Grants Commission enabled the University to raise the intake capacity of students in diploma classes at the Polytechnic from 180 to 360. The Extended Diploma Courses in Civil, Mechanical and Electrical Engineering with an intake capacity of 100 students were started in the Polytechnic in the year 1963 and completed the 5 year period on 9th December, 1968.

The development activities during the preceding years are described in the nineteen Annual Reports published so far. This twentieth Annual Report covers the period from 1st April, 1968 to 31st March, 1969 and is submitted to the Senate in accordance with Section 28(2) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.

CHAPTER I—GENERAL

1. Institutions in the University

Constituent and Recognised Institutions (Under Section 42 and 69 of the Act).

(1) Faculty of Arts, (2) Faculty of Science, (3) Faculty of Education and Psychology, (4) Faculty of Commerce, (5) Faculty of Medicine, (6) Faculty of Technology and Engineering, (7) Faculty of Fine Arts, (8) Faculty of Home Science, (9) Faculty of Social Work, (10) Faculty of Law, (11) Oriental Institute, (12) College of Indian Music, Dance and Dramatics, (13) Baroda Sanskrit Mahavidyalaya, (14) Preparatory Unit—Arts and Commerce, (15) Preparatory Unit—Science, (16) Shri M. K. Amin Arts and Science College and College of Commerce, Padra, (17) Polytechnic and (18) Museum and Picture Gallery.

2. Number of Students

The number of University students during the year was 14,386 (10,968 men students and 3,418 women students) and that of non-University students was 1,676 (1,068 men students and 608 women students). The details about the students are given in Appendices I and II.

3. Special Features of the year

(1) Convocations:

- (i) The Eighteenth Annual Convocation was held on 12th October, 1968. Dr. D. S. Kothari, Chairman, University Grants Commission, New Delhi, delivered the Convocation Address. The Chancellor presided over the function. 1,828 degrees and diplomas were conferred.
- (ii) The Ninth Supplementary Convocation was held on 30th March, 1969. The Vice-Chancellor presided over the function. 439 degrees and diplomas were conferred.

The details about the award of degrees and diplomas at the above Convocations are given in Appendix III.

(2) New Courses:

The University started the following new courses:

- (i) Petroleum Geology at the M.Sc. Applied Geology course in Geology Department in the Faculty of Science.

- (ii) Post-graduate Diploma in Dietetics in Foods and Nutrition Department in the Faculty of Home Science.
- (iii) Diploma in Laboratory Techniques in Bio-chemistry Department in the Faculty of Science.

(3) *New Buildings:*

The buildings for the Centre for Secondary Education in Rural areas in the Faculty of Education and Psychology was completed and occupied during the year.

Construction work of the following new buildings was started during the year.

- (i) Building for the Department of Microbiology in the Faculty of Science.
- (ii) Extension to the building of the Faculty of Home Science.
- (iii) Building for the Department of Metallurgical Engineering in the Faculty of Technology and Engineering.
- (iv) Building for Post-graduate Courses in the Civil Engineering and Applied Mechanics Departments and High Tension Laboratory for the Electrical Engineering Department in the Faculty of Technology and Engineering.
- (v) Extensions to the Rabindranath Tagore Hall and Siddhraj Jayasinh Hall of Residence for men students.

(4) *Fourth Five Year Plan:*

The Government of Gujarat approved the following schemes for payment of their matching shares as well as for the purpose of taking over the recurring liability on completion of the 5 year period of implementation.

- (i) Non-recurring expenditure on building, equipment etc., for Introduction of the Five Year Integrated Degree Course in Civil, Mechanical and Electrical Engineering.
- (ii) Non-recurring expenditure on building, equipment etc., for Expansion and Development of the Polytechnic and additional intake of 60 seats.
- (iii) Buildings for the Faculties of Arts and Law, Lecture Auditorium for the Faculty of Fine Arts, Studio for Applied Art, building for Geography Department, Extension to the University Library Building, Hostel for Teachers and 30 quarters for Class IV staff.

- (iv) Posts of 2 Professors (Microbiology and Statistics), 4 Readers (Bio-chemistry, Chemistry, Mathematics and Physics), 2 Lecturers (Microbiology and Physics) and one Senior Mechanic for the Central Workshop in the Faculty of Science.

A Visiting Committee appointed by the University Grants Commission visited the Ramayana Department and the Oriental Institute on 8th and 9th April, 1968 and recommended the following grants:—

- (i) Rs. 3,90,000 on sharing basis—U.G.C. 66 $\frac{2}{3}$ % and State Government/University 33 $\frac{1}{3}$ % for continuing the Scheme of "Publication of a Critical Edition of Valmiki Ramayana" from 1-1-1968 to 31-3-1971.
- (ii) Rs. 90,000 on sharing basis of 50:50 for publication of books under the Gaekwad Oriental Series.
- (iii) Rs. 5,000 for purchase of books and journals.

The above recommendations of the Committee have been approved by the University Grants Commission. The State Government's concurrence is awaited.

✓ (5) *Summer Institutes, Schools, Seminars and Conferences:*

The following Summer Institutes, Seminars and Conferences were held under the joint auspices of the University Grants Commission and the University:—

- (i) Summer Institute in Mathematics for University and College teachers under the Directorship of Professor U. N. Singh.
- (ii) Summer Institute in Physics for College teachers under the Directorship of Professor N. S. Pandya.
- (iii) Summer School of Linguistics under the Directorship of Shri D. D. Mahulkar.
- (iv) Twenty-first International Geographical Congress.
- (v) Symposium on Rural Settlement under the Directorship of Professor (Smt.) V. A. Janaki.
- (vi) Fourteenth Annual Conference of the Association of Physiologists and Pharmacologists.
- (vii) Fifth Annual Conference of Gujarat Ganit Mandal.

✓ (6) *The following are some of the distinguished Visitors to the University:*

Name	Date of Visit
(i) Mr. Richard Heggie, Representative of Asia Foundation, New Delhi	26-4-1968

<i>Name</i>	<i>Date of Visit</i>
(ii) Dr. C. S. Patel, President, Medical Council of India, New Delhi	7-7-1968
(iii) Shri Hitendrabhai Desai, Chief Minister, Gujarat State	3-8-1968
(iv) Mr. Heinz Kny, Reader at the Faculty of Vocational Pedagogies of Technical University Dresden, Germany	8-8-1968
(v) Dr. Wolfgang Rockschi, Reader in Comparative Education at the College of Pedagogies, Dresden, Germany	8-8-1968
(vi) Mr. William Horwood, Mr. Steven Wassermann, Mr. Margaret Booth, Representatives of World Students Service, London, U.K.	28-8-1968
(vii) Professor A. N. Kost, UNESCO Consultant to the Centre of Advanced Study Project in Indian Universities Moscow State University, Moscow, U.S.S.R.	4-11-1968
(viii) Dr. John Halversan, Assistant Professor of Literature at Strevensen College, California University, U.S.A.	19-1-1969
(ix) Dr. Huseph W. Kappel, Director, Office of International Statistical Programs, Washington, U.S.A.	26-3-1969
✓(7) <i>Other Important Events:</i>	
(i) The University mourned the sad demise of Maharaja Sir Pratapsinh Gaekwad of Baroda, the first Chancellor of the M. S. University of Baroda who passed away on 19th July, 1968.	
(ii) The Foundation laying Ceremony of the new building of the Microbiology Department was performed by Shri Hitendrabhai Desai, Chief Minister, Gujarat State on 3rd August, 1968.	

- (iii) In response to the appeal made by the Pro-Vice-Chancellor of this University on 9th August, 1968 in connection with the Gujarat Flood Relief Fund, the University collected an amount of Rs. 70,815-08 contributed by the students and members of the staff of this University towards the Gujarat Flood Relief Fund. This collection was sent to the President of the Baroda District Sankat Rahat Trust, Baroda with a request to remit 55% share of the collection to Chief Minister's Relief Fund, Gujarat State, Ahmedabad.

4. Teaching Staff

The total number of teaching staff (excluding 89 in Medical College) consisted of 50 Professors, 110 Readers, 279 Lecturers, 173 Assistant Lecturers, 111 Instructors, 43 Honorary, Part-time and others, the total being 766 (Appendix IV).

5. Facilities to the Teaching Staff for further studies abroad

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

<i>Sr. No.</i>	<i>Name of the Teacher</i>	<i>Qualifications and experience acquired</i>
(1)	Shri A. P. Rana, Reader in Political Science	Collected data in connection with his Doctorate thesis.
(2)	Shri M. M. Dadi, Lecturer in Economics	Completed his assignment as Fullbright Scholar at the University of Chicago.
(3)	Dr. K. N. Trivedi, Reader in Organic Chemistry	Completed his assignment as Post-doctoral Fellow in Australia.
(4)	Shri O. P. Goyal, Lecturer in Mathematics	Attended Post-graduate course in functional analysis at Aarhus University, Denmark, sponsored by UNESCO.
(5)	Dr. G. B. Shah, Lecturer in Education	Carried on teaching work at the State University of Michigan and delivered lectures.
(6)	Shri K. C. Bhatt, Co-ordination, Extension Services Department	Delivered lectures and taught at Frankfurt University. Also participated in Seminars and Discussions.
(7)	Shri K. S. Sastri, Lecturer in Electrical Engineering	Carried out research work in Automatic Control Engineering at the Federal Republic of Germany for Advanced Work and Research Studies.

<i>Sr. No.</i>	<i>Name of the Teacher</i>	<i>Qualifications and experience acquired</i>
(8)	Shri H. V. Bhavnani, Lecturer in Civil Engineering	Completed Post-graduate course on Hydrological Method for developing Water Resources Management at Budapest.
(9)	Professor N. Chaudhuri, Professor and Head, Department of Sculpture	Visited Art institutions in U.K. and Germany.
(10)	Shri R. K. Parimoo, Reader and Head, Department of Art History	Visited Moscow and Leningrad and delivered lectures on Indian Arts and Culture under I.N.O.—USSR Cultural Programme.

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

<i>Sr. No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
(1)	Shri S. R. Agrawal, Lecturer in Mathematics	To attend a Post-graduate course in Functional Analysis organised by the Aarhus University of Denmark, sponsored by UNESCO.
(2)	Shri S. C. Jaiswal, Lecturer in Statistics	Higher Studies in Statistics in U.S.A.
(3)	Dr. M. M. Shah, Lecturer in Education	Teaching and Research at the Frankfurt University, Germany.
(4)	Shri D. S. Pathak, Lecturer in Economics	For Post-graduate Studies in Economics at the Southern Methodist University, Dallas, Texas.
(5)	Shri M. B. Desai, Lecturer in Mechanical Engineering	To avail of UNESCO Fellowship for Research Training in Mechanical Engineering at Italy and U.K.
(6)	Shri B. J. Pandya, Lecturer in Social Work	To avail of the Fellowship at Honolulu Hawaii, U.S.A. for studies in Sociology and Social Work.

6. University Examination Results

30 candidates were declared qualified for the award of the Ph.D. degree of this University during the year 1968-69. A statement showing names of the candidates, subject and titles of their theses is given in Appendix V.

Statement showing the results of (i) March-April-May-June 1968 and (ii) October-November 1968 examinations are given in Appendices VI and VII.

7. Finances of the University

(1) Endowments received during the year:

The Syndicate accepted the following donations:

(i) Baroda Sanskrit Mahavidyalaya Suvarna Jayantee Mahotsava Smarak Fund:

Donation of Rs. 2,551 from Baroda Sanskrit Mahavidyalaya Golden Jubilee Mahotsava Executive Committee for awarding every year four cash prizes of equal amount to students securing the highest total number of marks in the Final Year Annual Examinations of Pratham Kaksha, Madhyam Kaksha, Visharad, Shastri and Acharya at the first attempt held by the Baroda Sanskrit Mahavidyalaya and the M. S. University of Baroda in March/April respectively at the Annual Day Function of the Mahavidyalaya.

(ii) Shri Jagjivandas Dayalji Mody Prize Fund:

Donation of Rs. 1,700 transferred by the State Government in form of 3% Conversion Loan, 1946 to the M. S. University of Baroda, for awarding every year a prize in cash to a student passing the B.A. Examination of March/April from M. S. University of Baroda with Gujarati as his major subject in first class at the first attempt obtaining the highest number of marks.

(iii) Professor Gogate Physics Prize Fund:

Donation of Rs. 5,000 from Professor D. V. Gogate, for awarding every year a prize (in cash) to a student who passes the final year B.Sc. degree examination with Physics as Principal Subject, conducted by the M. S. University of Baroda in March/April, at first attempt in first class, obtaining the highest number of marks in Physics amongst the successful candidates at that examination and continues his studies in the M.Sc. class in Physics, in this University.

(2) Capital Accounts:

Statement showing the income and expenditure of the (i) University General Fund, (ii) Ayurvedic Research Fund and (iii) Post-graduate Instruction and Research Fund during the period from 1st April, 1968 to 31st March, 1969 are given in Appendix VIII.

(3) Revenue Accounts:

The receipts and disbursements during the financial year 1968-69 are Rs. 1,22,27,060-79 and Rs. 1,28,14,424-95 respectively leaving a deficit of Rs. 5,87,364-16. Details of the accounts are given in Appendix IX.

(4) Grants:

The University received grants totalling Rs. 43,47,276-94 on development schemes from the University Grants Commission and the Government of Gujarat,

and on various research schemes, studies and projects from the Planning Commission, Union Ministries, State Government Departments Council of Scientific and Industrial Research, United States Department of Agriculture (Am PL 480) and other bodies. The details are given in Appendix X.

8. Construction Division

(1) Capital Works:

The Construction Division supervised the construction of various buildings, extensions, additions, alterations and an amount of Rs. 8,93,990-97 was spent during the year on capital works. Also the building works viz. Men's Hall, Women's Hall, Office building and Staff Quarters of Sir Sayajirao Diamond Jubilee and Memorial Trust were supervised and the amount of Rs. 5,02,907-02 was spent during the year from the advances received from the Trust from time to time.

(2) Ordinary and Special Repairs:

The total expenditure on repair works during the year was Rs. 79,985-51 and Rs. 75,316-04 on ordinary and special repairs respectively. Also an expenditure amounting to Rs. 8,350-47 was incurred on immediate petty repairs.

CHAPTER II—OFFICERS OF THE UNIVERSITY

1. Officers

(1) The Chancellor:

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

(2) The Vice-Chancellor:

Dr. C. S. Patel, B.A., M.Sc., (Bom.), Ph.D. (Leeds) continued to work as Honorary Vice-Chancellor under Statute 115 during the year.

He attended the following meetings during the year:

(i) Joint Session of the Members of the Council of Management for Educational Activities of the Nehru Foundation for Development at Ahmedabad on 27th April and 27th October, 1968.

(ii) All India University Teachers' and Students' Camp at Bombay from 19th to 25th May, 1968.

(iii) Meetings of the Vice-Chancellors of the State Universities at Ahmedabad on 2nd June, at Rajkot on 1st September, 1968, at Ahmedabad on 8th January, 1969 and at Vallabh Vidyanagar on 10th February, 1969.

(iv) Standing Committee Meetings of the Inter-University Board of India and Ceylon at New Delhi on 2nd and 3rd July and 17th December, 1968 and the Inter-University Board's meeting at Vallabh Vidyanagar on 10th and 11th January, 1969.

(v) Executive Heads' Conference of the Commonwealth Universities at Melbourne from 10th to 16th August and the 10th Commonwealth Universities Congress at Sydney in Australia from 17th to 23rd August, 1968.

He also attended the Mahatma Gandhi Birth Centenary Celebration Committee meeting at Ahmedabad and the University Adult Education Association meeting at New Delhi and Vallabh Vidyanagar.

(3) The Pro-Vice-Chancellor:

Professor P. J. Madan, B.Sc. (Eng.) (Edin.), M.Sc. (Eng.), D.I.C.M. Inst. H.E. (London), M.I.E. (India) continued to work as the Pro-Vice-Chancellor under Statute 120 during the year.

He attended the following meetings during the year :

(i) 36th and 38th Western Regional Committee of the All India Council for Technical Education meetings at Bombay on 2nd May, 1968 and 17th March, 1969.

(ii) 453rd meeting of the Council of the Institution of Engineers (India) at Darjeeling from 17th to 19th May, 1968.

(iii) 19th meeting of the All India Council for Technical Education at Delhi on 25th May, 1968.

(iv) 39th meeting of the Co-ordinating Committee of the A.I.C.T.E. at Delhi on 24th August, 1968.

(v) 454th meeting of the Council of the Institution of Engineers (India) at Mysore from 3rd to 8th September, 1968.

(4) *Deans:*

The following Officers worked as Deans of the various Faculties :

<i>Faculty</i>	<i>Dean</i>
(i) Arts	Professor V. Y. Kantak (Upto 21-2-1969) Professor S. C. Misra (From 22-2-1969)
(ii) Science	Professor N. S. Pandya
(iii) Education & Psychology	Professor M. S. Patel (Upto 31-7-1968) Professor T. P. Lele (From 1-8-1968 upto 20-3-1969) Professor D. M. Desai (From 21-3-1969)
(iv) Commerce	Dr. K. N. Naik
(v) Medicine (Faculty) (College)	Dr. T. V. Patel Dr. S. M. Sen
(vi) Technology and Engineering	Professor L. B. Shah
(vii) Law	Professor H. C. Dholakia
(viii) Fine Arts	Professor N. Chaudhuri (Upto 30-4-1968) Professor K. G. Subramanian (from 1-5-1968)
(ix) Home Science	Professor (Kumari) Justina A. Singh
(x) Social Work	Professor G. G. Dadlani

(5) *Registrar:*

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

(6) *Librarian:*

Shri M. F. Lokhandwala continued to work as Officer-in-charge.

(7) *Other Officers:*

<i>Name</i>	<i>Designation</i>
(i) Professor B. J. Sandesara	Director, Oriental Institute
(ii) Professor R. C. Mehta	Principal, College of Indian Music, Dance and Dramatics (Upto 30-4-1968)
Shri S. O. Shukla	Principal, College of Indian Music, Dance and Dramatics (From 1-5-1968)
(iii) Shri H. C. Mehta	Principal, Sanskrit Mahavidyala
(iv) Shri K. D. Shah	Principal, Polytechnic
(v) Shri I. A. Dave	Principal, M. K. Amin Arts and Science College and College of Commerce, Padra
(vi) Shri K. S. Yajnik	Head, Preparatory Unit—Arts and Commerce
(vii) Shri C. J. Shah	Head, Preparatory Unit—Science
(viii) Shri M. M. Chokshi	Principal, University Experimental School

CHAPTER III—THE SYNDICATE AND THE SENATE

1. The Syndicate

The Syndicate consisted of 15 members. During the year, the Syndicate held 11 meetings in which they considered and passed resolutions on 674 items. The following statement shows the attendance of the members at Ordinary and Special meetings of the Syndicate during the year:

Name	No. of meetings held	Class of meetings O. Ordinary S. Special	Present	Absent
1	2	3	4	5
Dr. C. S. Patel	11	O.5	O.3	O.2
Vice-Chancellor		S.6	S.6	—
Professor P. J. Madan	11	O.5	O.5	—
Pro-Vice-Chancellor		S.6	S.4	S.2
Director of Education or his nominee	11	O.5	O.5	—
		S.6	S.6	—
Shri J. S. Parikh	11	O.5	O.4	O.1
		S.6	S.6	—
Shri N. D. Chokshi	11	O.5	O.5	—
		S.6	S.6	—
Shri C. C. Mehta	11	O.5	O.5	—
		S.6	S.6	—
Shri P. C. Hathi	11	O.5	O.4	O.1
		S.6	S.5	S.1
Shri N. B. Amin	11	O.5	O.3	O.2
		S.6	S.3	S.3
Shrimati A. B. Patel	11	O.5	O.5	—
		S.6	S.4	S.2
Dr. C. B. Patel	11	O.5	O.4	O.1
		S.6	S.5	S.1
Dr. T. V. Patel	11	O.5	O.5	—
		S.6	S.4	S.2
Professor V. Y. Kantak*	11	O.5	O.2	O.1
		S.6	S.2	S.1

1	2	3	4	5
Professor S. M. Sethna	11	O.5	O.4	O.1
		S.6	S.6	—
Professor L. B. Shah	11	O.5	O.5	—
		S.6	S.6	—
Professor H. C. Dholakia	11	O.5	O.5	—
		S.6	S.6	—

* He ceased to be the member from 22nd February, 1969.

The syndicate at its meeting held on 19th March, 1969 considered the Report of the Vice-Chancellor's Committee on the Amendment of the M. S. University of Baroda Act, 1949 and with certain additions and modifications forwarded it to the Senate for consideration and onward transmission to the Government of Gujarat.

2. The Senate

The Senate consisted of 91 members. The changes in the membership during the year were as under:—

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

Shri Chandravadan C. Shah, Shri V. J. Thaker, Major General His Highness Sir Pratapsinh Gaekwad, Professor V. Y. Kantak, Professor T. P. Lele, Professor N. Chaudhuri, Professor R. C. Mehta, Shri T. A. Desai and Shri S. M. Ghosh.

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

Professor C. N. Vakil, Shri M. P. Vyas, Professor K. G. Subramanyan, Shri S. O. Shukla, Professor P. S. Kalwachwala and Shri M. Sivagnanam.

The Senate met twice during the year, on 13th October, 1968 and 30th March, 1969. 55 members attended the meeting held on 13th October, 1968 and 63 members on 30th March, 1969.

First meeting (13th October, 1968)

The following business was transacted:

Elections of members to the Board of Visitors of the Faculty of Technology and Engineering and Polytechnic, two members on the Board of Extra Mural Studies and of three members on the Board of Accounts. Five Fellows were assigned to the Faculties. Replies to questions and supplementary questions were given. Lapsed grants amounting to Rs. 48,000 in the Capital Budget and Supplementary grants amounting to Rs. 2,03,850

in the Revised Budget were sanctioned. Proposals for amendment of Statutes 199 and 200 were considered and passed. Ordinances and Rules were considered and passed. The Nineteenth Annual Report and the Nineteenth Annual Accounts for the year 1967-68 were passed and the excess of expenditure over the revised estimates for the year 1967-68 was also approved. The report of the Board of Accounts for the year 1967-68 was considered and passed.

The Second meeting (30th March, 1969)

The election of five teachers to the Council of Post-graduate Studies and Research was held. One Fellow was assigned to the Faculty. Replies to questions and supplementary questions were given. The Annual Financial Statement comprising of the revised estimates for the year 1968-69 and the estimates for the year 1969-70 was considered and passed. Ordinances and Rules were considered and passed.

CHAPTER IV—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-graduate Studies and Research

The Council of Post-graduate Studies and Research met twice during the year, on 10th July, 1968 and on 16th January, 1969, and considered in all 53 items referred to it. The following are the main items considered and recommended by the Council and approved subsequently by the Syndicate.

(1) Recorded the progress reports of the previously approved research schemes and recommended their continuation where necessary. It also considered and recommended new research schemes for implementation during the year 1969-70.

(2) Recorded the 34th and 35th half-yearly progress reports of the critical editions of old Gujarati Texts (*Prachin Gurjar Granthmala*).

(3) Revised the rules for recognition of teachers as Ph.D. guides and recommended the same for approval.

2. Faculties

There are ten Faculties in the University. Their meetings were held during the year as shown below. Meetings of the Faculties of Home Science and Social Work were not held as there was no important business :

<i>Sr. No.</i>	<i>Name of the Faculty/Joint Faculties</i>	<i>Date of the meeting</i>
(i)	Arts	24-11-1968
(ii)	Science	23-11-1968
(iii)	Commerce	23-11-1968
(iv)	Education and Psychology	9-9-1968
(v)	Medicine	19-6-1968
		and
(vi)	Technology and Engineering	23-11-1968
(vii)	Fine Arts	24-11-1968
(viii)	Medicine and Science (Joint)	23-11-1968
		19-6-1968
(ix)	Law	19-1-1969

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

(1) *Faculty of Arts :*

(i) The M.A. course be divided into two parts—Part I four papers and Part II four papers. The four papers of Part I be taught in the

First Year and examined in at the end of that year. Similarly the four papers of Part II be taught and examined in the second year. The results of Part I and Part II examinations combined will be the result of the M.A. examination as a whole.

- (ii) Students be examined in two papers of the B.A. major subjects alongwith the subjects of the S.Y.B.A. Examination.

(2) *Faculty of Science :*

- (i) Revised the course in T.Y.B.Sc. Practical in the subject of Zoology.
- (ii) Revised the syllabus in Inorganic Chemistry for M.Sc. (Previous) and M.Sc. (Final).
- (iii) The subject of Petroleum Geology be introduced in the Post-M.Sc. Applied Geology Course.

(3) *Faculty of Commerce :*

- (i) Approved the revised syllabi for the paper on Business Administration for the Post-graduate Diploma Course in Co-operation.
- (ii) Amended the existing O. Com. 25 with a view to permit students who have passed the B.Com. degree examination to qualify in additional special subjects without keeping any additional term.

(4) *Faculty of Education and Psychology :*

- (i) O.M.Ed. 7 be amended with a view to provide the following :
The transcript shall contain the details of the grades and Classes A+, A, B or C, which will be equivalent to distinction, first, second, or third class respectively.
- (ii) Reorganised the B.A. (Education) syllabus and recommended the same for approval.
- (iii) The subject of History be recognised as a minor subject with Psychology as major subject at the S.Y.B.A. examination and Vice-versa.

(5) *Faculty of Medicine :*

- (i) Recommended ordinances containing the schemes of examinations, admission requirements, standard of passing etc. of the various degrees and diploma courses of Medicine and general rules for registration for the Post-graduate Courses in the Faculty of Medicine.
- (ii) Recommended that the Registration Certificates issued to the students be treated as provisional registration certificates for a period of one year for the Post-graduate courses and the said certificate be deemed as final registration certificates after the students have completed one year's Housemanship to the satisfaction of the Dean, Medical College, Baroda.

- (iii) The M.Sc. examination under the Faculty of Medicine be split up into two parts and basic sciences be included in Part I.
 - (iv) Candidates be not permitted to avail of more than three attempts at the M.Sc. Part I examination.
 - (v) Radiology be considered as an allied subject to Paediatrics and Vice-Versa.
 - (vi) Obstetrics and Gynaecology be considered as an allied subject of Surgery.
 - (vii) The nomenclature M.Sc. Medical Microbiology be approved.
- (6) *Faculty of Technology and Engineering :*
- (i) The adoption of Semester system for the existing full-time diploma course in Civil, Mechanical and Electrical Engineering be accepted in principle.
 - (ii) The post-graduate diploma course in Harbour Engineering be introduced in the Faculty of Technology and Engineering.
 - (iii) Recommended revised scheme of working, teaching and syllabi for some subjects for M.E. (Civil) courses.
 - (iv) Recommended additional elective subjects to be offered at II Semester of the B.E. V (Civil) Course.
 - (v) Approved the modified semesterwise schemes of Examination and working for B.E. IV Metallurgical Engineering.
 - (vi) Recommended that an additional paper of "Production Process" be introduced in the M.E. (Production Engineering) Course.
 - (vii) Recommended the modified schemes of working and examination for M.E. (Production).
 - (viii) Approved the modified syllabi in different subjects for the Post-graduate Diploma in Refrigeration and Air-conditioning.
 - (ix) Recommended the modified syllabi, revised schemes of working and examination for M.E. (Elect.) courses.
 - (x) The existing requirement of admission to B.E. (Electronics) Course be raised from 50% to 55% marks in the aggregate at the qualifying examination.
 - (xi) A candidate appearing either at the M.E. Part I, Part II or Part III examination be not permitted to avail of more than three attempts. Failure at three attempts in any part shall debar him from appearing at the same and subsequent parts.
- (7) *Faculty of Fine Arts :*
- (i) The dissertation requirements for M.Mus. students be removed from the year 1968-69.

- (ii) Modified the provision regarding the standard of passing and award of classes at B.A. (Final) and Diploma examinations.
- (iii) The Undergraduate Course in Textile Design be dropped.
- (iv) Students who have qualified for the degree or diploma in Sculpture or Applied Arts from the Faculty of Fine Arts be considered eligible for admission to the Post-graduate/Post-Diploma course in Mural.
- (v) Recommended the introduction of the Five Year Degree and Diploma Courses in Painting, Sculpture and Applied Arts in the Faculty of Fine Arts.
- (8) *Joint Faculties of Medicine and Science :*
- (i) A Course leading to the degree of Bachelor of Physiotherapy be instituted under the Faculty of Medicine.
- (ii) Approved the details of Syllabi, Scheme of Examinations, admission requirements, standard of passing etc. for the B.Sc. Physiotherapy course.
- (9) *Faculty of Law :*
- Recommended that candidates holding the LL.B. (General) degree or LL.B. (Special) degree be considered eligible for admission to the LL.M. Course in this University.

3. Boards of Studies

There are 48 Boards of Studies in different subjects. 38 Boards met during the year as shown below :

Sr. No.	Name of the Board	Date of the meeting
(i)	Sanskrit, Pali and Prakrit Languages and Literature	2-9-1968
(ii)	Persian, Urdu and other Asian Languages and Literature	2-9-1968
(iii)	Hindi Language and Literature	3-9-1968
(iv)	Gujarati Language and Literature	10-9-1968
(v)	Marathi Language and Literature	3-9-1968
(vi)	English Language and Literature	19-8-1968
(vii)	Modern and Ancient European Languages and Literature	19-8-1968
(viii)	History, Archaeology and Ancient Indian Culture	6-9-1968
(ix)	Philosophy	2-9-1968
(x)	Linguistics	3-9-1968
(xi)	Political Science	7-9-1968
(xii)	Economics	7-9-1968
(xiii)	Physics and Meteorology	2-9-1968
(xiv)	Chemistry	9-9-1968

Sr. No.	Name of the Board	Date of the meeting
(xv)	Botany	17-9-1968
(xvi)	Zoology	3-9-1968
(xvii)	Bio-Chemistry	25-9-1968
(xviii)	Microbiology	23-9-1968
(xix)	Geology	21-9-1968
(xx)	Mathematics	6-9-1968
(xxi)	Geography	7-9-1968
(xxii)	Education and Educational Administration	9-9-1968
(xxiii)	Psychology	9-9-1968
(xxiv)	Banking and Business Finance	5-9-1968
(xxv)	Accounts	5-9-1968
(xxvi)	Commerce including Business Administration	5-9-1968
(xxvii)	Co-operation	5-9-1968
(xxviii)	Anatomy and Physiology	16-9-1968
(xxix)	Pharmacology and Pathology	16-9-1968
(xxx)	Medicine, Surgery, Midwifery etc.	16-9-1968
(xxxi)	Civil Engineering and Applied Mechanics	14-9-1968
(xxxii)	Mechanical Engineering and Metallurgical Engineering	14-9-1968
(xxxiii)	Electrical Engineering and Electronics	14-9-1968
(xxxiv)	Chemical Engineering	14-9-1968
(xxxv)	Architecture	14-9-1968
(xxxvi)	Painting, Sculpture, Applied Arts and Art History	5-10-1968
(xxxvii)	Music, Dance and Dramatics	11-9-1968
(xxxviii)	Museology	11-9-1968

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

CHAPTER V—OTHER BOARDS AND COMMITTEES

General

A brief summary of the important business transacted by the various Boards and Committees, during the year, is given below:

1. University Board of Sports

Three meetings of the University Board of Sports were held during the year. The Board appointed (i) a Committee to select teams for participating in All India Tournaments, (ii) a Committee to conduct the Inter-University Cricket Tournament (West Zone); (iii) a Committee to consider the question of giving blazers to the players and (iv) the coaches (a) Shri J. M. Ghorpade for Cricket, (b) Shri G. S. Gaekwad for Hockey and (c) Shri Y. S. Yadav for Kho-Kho (Men and Women). The Board recommended that no exemption from Physical Training be granted to those students who play major games. It also considered various matters about the working and development of the Physical Education Department.

2. Students Welfare Board

A meeting of the Board was held on 14th September, 1968. The Board recommended that (i) a Canteen at the College at Padra be built at a cost of Rs. 5000 and (ii) in case of the death of a residential student in the University during the academic term, a detailed report about the case be placed before the Board.

3. Publication Board

Two meetings of the Board were held during the year on 19th July, 1968 and 20th January, 1969. It considered and recommended the publication of the following works:

(i) "Political Behaviour in Baroda City during the 1967 General Election"—by Thomas Pantham, (ii) "Botany in Indian Museums" by M. S. Chandrasekhar, (iii) (a) "Bhagvad—Ajjukam—The Priest and the Prostitute" (b) "Mutt-Vilas—The Sport of the Intoxicated and (c) "Ubhaya-bhisarika—Two lovers in search of each other"—translated into English by Chandravadan C. Mehta, (iv) "Gujarat as the Arabs knew it"—Research Paper Series of the Geography Department.

Besides the above, the Board considered and recommended rules for publication of Text-Books, for translation of books etc., and approved the programme of publication of five works under the Gaekwad Oriental Series.

4. Board of Extra-Mural Studies

The Board met on 17th September, 1968 and recommended a programme of extension lectures by University teachers and outside experts. An amount of Rs. 7,700 was sanctioned for the purpose.

5. Library Committee

Three meetings of the Committee were held during the year. It approved the terms and rates for the supply of books by approved vendors for the year 1968-69, the procedure to be adopted for the purchase of books etc. from the vendors and also recommended the revised general rules for Shrimati Hansa Mehta Library.

6. Building and Planning Committee and University Buildings Committee

The Committee met on 9th December, 1968. It recommended that (i) the works under construction and the works to be executed in the year 1969-70 out of the U.G.C./State Government grant and Hostel work for which loan is already sanctioned by the Ministry of Education, Government of India, be taken up on hand immediately and that the works of sharing grants be executed as and when the concurrence of Gujarat Government for their matching share is received and (ii) the works of Special Repairs, Water Supply Scheme in the University Campus be carried out.

7. Standing Committee on Equivalence of Examinations

The Committee met thrice during the year on 15th April and 10th July, 1968 and 16th January, 1969. It considered the various items regarding equivalence of the various examinations and cases of eligibility of students. It also considered various recommendations of the Inter-University Board of India and Ceylon regarding equivalence of examinations. The important recommendations made by it at its various meetings are as under:—

- (i) Students who have passed Higher Secondary/Higher School Certificate/Indian School Certificate/Overseas School Certificate/G.E.C. (O.L.) conducted by Statutory Boards or other Universities or public examining bodies with English, Physics, Chemistry and Biology as subjects be considered eligible for admission to the F.Y.B.Sc. course and such students be allowed to select subjects other than Mathematics.
- (ii) The Diploma in Early Childhood Education of the Faculty of Education and Psychology be recognised as equivalent to Preparatory Arts for admission to F.Y.B.A. class in the Faculty of Arts.
- (iii) Foreign students who have joined Preparatory Arts, Science and Commerce and F.Y.B.A. courses of this University be exempted

from appearing in the paper of "Indian Literature" at the Preparatory Arts, Science and Commerce and in the paper of "Hindi" at the F.Y.B.A. examination of this University. Such students be declared to have passed the said examinations in pass class, if they have passed in all other subjects prescribed for the same and they be *not* considered eligible for the award of a class, prize or scholarship or such other benefits.

- (iv) The East-African Certificate of Education conducted by the East-African Examination Council and Cambridge Syndicate be recognised as equivalent to the corresponding Preparatory Examinations in Arts, Science and Commerce for purposes of admission to available higher courses of studies, if it is passed with the required subjects.

8 The Academic Committee

The Committee met twice during the year on 23rd July, 1968 and 3rd February, 1969.

It considered the letter from the General Secretary, Central Secretariat, Hindi Parishad, New Delhi suggesting that it should be compulsory for all Ph.D. students to prepare Text-book of the under-graduate standard in any Indian Language and recommended that the same be recorded. Further a proposal from the Secretary, Inter-University Board of India and Ceylon regarding compulsory National Service for University and College students was considered and the Committee recommended that the question of National Service Scheme being under active consideration of the Ministry of Education, their decision be awaited. It also considered the views of the Ministry of Defence on the report of the Review Committee on Military Science sent by the University Grants Commission and recommended that this University has neither personnel nor resources to put into practice the courses of studies recommended in the report. The Committee considered a letter from the Secretary, Inter-University Board of India and Ceylon regarding institution of an intermediate degree between M.A. and Ph.D. for subjects in Social Sciences and Humanities in order to upgrade and maintain the standard of Ph.D. or D.Phil. degree and recommended that adding any degree in between will not give any higher standard and, therefore, training at M.A. may be strengthened to overcome the difficulty where it exists. This University is not in favour of instituting an intermediate degree.

At its second meeting, the Committee considered the proposal of Swami Shri Bhadra of Surat forwarded by the Deputy Secretary to the Government of Gujarat, Education and Labour Department, Ahmedabad in the matter of starting the courses of Yoga-Vidya in the University and recommended that it is not possible to introduce such a course under the present circumstances.

9. The Preparatory Courses Committee

The Committee met twice during the year on 3rd April, 1968 and 18th March, 1969. It recommended the appointment of members in the Sub-committee for smoothening the work of admissions to Preparatory Courses in Arts, Science and Commerce in the session 1968-69. It approved the changes in the Text-books for (1) English Language and Literature—Paper I, (2) Additional English—Section II—Paper II, (3) General English—Paper V, (4) Social Studies—Sections I, II, (5) History—Paper VI, (6) Book-keeping, (7) Hindi, (8) Geography and (9) Sanskrit. It also recommended the appointment of members to act on sub-committee for the General Education Programme and for the various subjects of Preparatory courses for the period upto 30th June, 1969.

In its second meeting, the Committee recommended the appointment of members to act on sub-committees for the General Education Programme and for various subjects of Preparatory Courses for the period upto 30th June, 1971. It approved the changes in the Text-books for English Paper I and Marathi Paper II. It endorsed the views of the various sub-committees that (1) the question papers at the Annual Examination should be modified to avoid cramming and test the students for their use of the Library, (2) Each long question should be split into sub-parts so that uniformity and objectivity in assessment may be possible, (3) Teacher-student contact may be increased.

10. Dean's Meeting

Four meetings of the Committee of the Deans of Faculties and the Heads of Institutions were held during the year. The Committee recommended as under :

- (i) Amendment of O. 183 A regarding N.C.C. training and/or Physical Education.
- (ii) The Registrar be designated as Officer-in-charge for the University News to be sent for the Inter-University Gazettee, of the Inter-University Board of India and Ceylon, New Delhi.
- (iii) The Pagis, Watchmen and Gate-keepers in the University service be placed under the administrative control of the Security Officer to whom leave applications will be given by every member of this cadre and the Security Officer in his turn would arrange for necessary work/duties in consultation with the Dean/Head concerned.
- (iv) For all Faculties as far as possible the academic year be from 15th June to 20th March, as at present.

- (v) The instruction work should also begin from 15th June for students other than those who are seeking admission to the University for the first time.
- (vi) In case of new entrants the classes should begin latest by 1st July.
- (vii) As far as possible all admissions be finalised by 30th June and in no case these be delayed beyond 15th July.
- (viii) The number of effective working days in the University be increased, the mid-year vacation be reduced by one week and the winter vacation be from 25th December to 3rd January.
- (ix) All University examinations be held during vacations. The examinations in practicals be conducted during term time, only if necessary. For the A.T.K.T. students some of their examinations be held during term time. The present practice of having one paper a day for all regular students be continued; but in the case of A.T.K.T. students two examinations be held, if considered necessary.
- (x) The number of hours of work for the students in the Faculties be more accurately determined by the Faculties and Institutions. However, the general objective be that students should, on average, put in about 25 hours of work per week.
- (xi) The teaching staff should remain present in the Faculty or Institution for at least four hours every day on all working days, so as to enable students to meet their teachers and seek their guidance. This is inclusive of the time spent by the teachers in actual instructional work in the Faculty or Institution.
- (xii) The nature of instruction work varies from Faculty to Faculty. The work norms as mentioned below be considered reasonable :

(a) Professor	8 lecture hours per week
(b) Reader	12 lecture hours per week
(c) Lecturer	16 lecture hours per week
(d) Assistant Lecturer	18 lecture hours per week

In addition to the above, a member of the teaching staff will be expected to attend administrative, correctional work or any other assignment given by the Department from time to time.

For purpose of calculating the work norm of the staff the nature of assignment outlined as under be taken into consideration :

- (a) Lecture work As per actual periods shown in the time table.

- (b) Conducting of Practicals/Studio Work/Field Work Supervision Actual time spent by the teacher or as scheduled in the personal time-table of the teacher.
- (c) Conducting of Seminars and Supervision of Practice Teaching Lessons at B.Ed. and D.Ed. Actual time spent by the teacher or as indicated in the time-table.
- (d) Research Guidance One hour per week per student. No teacher should have more than six students at a time for research guidance as far as possible.
- (e) Supervision of Field Work agencies or Supervision of practicals One hour per week per student. 50% of the actual time spent by the teacher.
- (xiii) The holidays in the Institutions of the University be the same as those observed by the Gujarat Government from time to time.

11. Finance and Establishment Standing Committee

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

The Committee met as the Budget Committee on 23rd January, 1969. It submitted to the Syndicate, the revised estimates for the year 1968-69 and estimates for the year 1969-70 after scrutinising various proposals received from the Faculties, Institutions and the Office of the University. It also recommended to the Syndicate the reports of the Economy Committee appointed to suggest ways and means to effect economy in the working of the University and to give their reports for consideration by the Syndicate. Six meetings of the Economy Committee were held and five interim reports were submitted to the Syndicate.

12. The Investment Committee

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

13. The Press Supervisory Committee

Seven meetings of the Committee were held during the year. They considered the monthly reports of the Manager regarding the work of the Press, R5

the Stationery Unit and the Publication Sales Unit and also printing programme, and made recommendations regarding purchase of paper, stationery, equipment etc.

14. Shri Sayaji Sahityamala Publication Committee

The Committee met on 7th October, 1968 and recommended the publications of the following works :

- | | |
|------------------------------|------------------------------|
| (i) પેટ્રોલિયમ | —by Shri Padmakant R. Shah, |
| (ii) ગ્રંથ સંગ્રહ | —by Shri Bharatram B. Mehta, |
| (iii) મહાગુજરાતના મુસલમાનો | —by Late Shri K. M. Master. |

15. Sir Sayajirao III Memorial Research Prize Fund Committee

The Committee met on 7th October, 1968 for scrutinizing the essays on 'ધાર્મિક મૂલ્યો અને સમકાલીન જીવન'. None of the essays to merit the prize and hence the award of the prize was not declared. It decided to invite essays on the subject 'ગુજરાતમાં જ્ઞાતિસંસ્થા : ભૂત અને ભાવિ' for the year 1968-69.

16. The Advisory Committee for the Halls of Residence

The Committee met on 5th July, 1968 and considered the possibility of having additional hostel accommodation for men students in view of the heavy demand and also considered the welfare activities of the Halls as a whole.

17. The Wardens' Committee

Four meetings of the Committee were held during the year. It approved (i) the procedure of charge-transfer of the Warden/Superintendent, (ii) the appointment of Assistant Superintendents in the Women's Halls, (iii) the monthly rent charges for temporary accommodation, (iv) the procedure for appointing local guardians for lady students, (v) appointment of a Hall Clerk at each Women's Hall, (vi) providing Identity Cards to the resident students of ladies hostels, (viii) reservation of seats in the Halls for the backward class students. The revised budget for the year 1968-69 and the estimates for the year 1969-70 were prepared and submitted to the Syndicate for approval.

18. The Advisory Committee for the University Health Centre

The Committee held two meetings during the year. It recommended that (i) the visits to the two hostels run by Sir Sayajirao Memorial and Diamond Jubilee Trust be done by the two Medical Officers of the University Health Centre, (ii) an additional amount of Rs. 3,000 be provided for medicines etc. for the year 1968-69 and (iii) the reports of the Committee appointed to investigate into the complaints received with regard to the death of Kum. Kiran Patel.

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

The Committee met on 18th January, 1969 and recommended that a cycle stand for about 30 cycles be provided near the 3rd Gujarat Bn. N.C.C. Unit.

20. The Advisory Board of the University Journal

The Board met on 12th December, 1968 and recommended to maintain status quo for pricing the University Journal.

21. Sheth U.P.A.R. Unit Committee

The Committee met on 7th February, 1969 and recommended to continue the scheme of આસરોગ (Asthma) scheme of સંઘમની on blood pressure and psychic depression, scheme of Menorrhagia and scheme of Sterility, to publish collated literature entitled સંકલિત સાહિત્ય સંગ્રહ, ભાગ ૨, creation of the post of Organic Chemist against two vacant posts of Chemist and Pharmacognosist, abolition of the post of Research Assistant in Pharmacology, Organisation of a symposium on work done in the country in Ayurvedic System in Medicine on modern lines during the last 21 years since independence and scope for further work and institution of lectures on the History of Medicine.

22. Selection Committees

During the period from 1st April, 1968 to 31st March, 1969 there were 11 meetings of the Selection Committees appointed under section 48(2) of the Act and they recommended 11 candidates for appointment to the posts of Professors and Readers in various Faculties and Institutions in the University. There were 18 meetings of the Standing Selection Committees for Junior Posts and 9 meetings of the Standing Selection Committees for Class III Posts. 64 and 17 candidates respectively were recommended by these Committees for appointment to different posts in the University.

23. The M. S. University Students' Aid Fund

The Committee met on 26th September, 1968. The total amount of help given to the students by way of tuition fees, examination fees, books, educational materials, medical help, loan etc. during the year 1968-69 was Rs. 28,598-50.

CHAPTER VI—RESEARCH WORK IN THE UNIVERSITY

475 students, who were registered for the Ph.D. degree in previous years, continued work on their research dissertations. 53 new students (14 in Faculty of Arts, 31 in Faculty of Science and 8 in Faculty of Education and Psychology) were registered for the Ph.D. degree during the period under report. Their details are as under:—

<i>Name of the Scholar</i>	<i>Name of the Guiding Teacher</i>	<i>Title of the thesis</i>
Faculty of Arts		
<i>History</i>		
Saiyed Ziauddin Sadrudin	Professor S. C. Misra	Shah-Alum—Shah-Bukhari and his age.
Patel Mahendra Ambalal	Dr. V. K. Chavda	Anandrao Gaekwad: and his relations with the Indigenous Dankers.
<i>Archaeology</i>		
Parekh Vasantkumar Somabhai	Professor R. N. Mehta	The Econography of Saiva deities.
Sri Arai Toshikuzu Toshio	Professor R. N. Mehta	Mediaeval Gujarat: Its culture and archaeology.
Smt. Srinivasan Saradha Sankaran	Professor R. N. Mehta	Relation between Karnataka and Gujarat between 7th and 14th centuries.
Bhowmik Swarnakamal Sudhirkumar	Dr. H. D. Sankalia	Early copper-bronze technology of Gujarat.
<i>American Literature</i>		
Smt. Vanikar Ranu Vijay	Professor V. Y. Kantak	William Faulkner.
<i>English</i>		
Pancholi Rajnikant Madhavlal	Professor V. Y. Kantak	Mathew Arnold's theory of criticism.
<i>Philosophy</i>		
Kum. Bhatwadekar Sindhu Balkrishna	Professor A. G. Javadekar	The Upanishadic theory of value.

<i>Name of the Scholar</i>	<i>Name of the Guiding Teacher</i>	<i>Title of the thesis</i>
Shri Korde Dinanath Govindrao	Professor A. G. Javadekar	Law and Value.
Shri Gandhi Keshavlal Ambalal	Professor A. G. Javadekar	The Ethico-religious philosophy of M. K. Gandhi.
<i>Sanskrit</i>		
Shri Purohit Laxminarayan Radhakrishnaji	Shri H. C. Mehta	Literary criticism of Bharat Champu Mahakavya.
Shri Vaishnava Haribhajandas Arjundas	Shri P. M. Mody	Shankara Vedanta—A critical stage.
<i>Hindi</i>		
Shri Doshi Surendrakant Kantilal	Dr. D. S. Shukla	भगवतीप्रसाद बाजपाई और उनका कथासाहित्य
Faculty of Science		
<i>Bio-chemistry</i>		
Jairath Asha	Dr. K. Bagchi	Effects of protein deprivation on the structure and functions of different components of eyes in Albino Rats.
P. Subba Rao	Professor C. V. Ramakrishnan	Studies on rat brain.
Upadhyay Chandrakant Mohanlal	Professor C. V. Ramakrishnan	Studies on rat tissue metabolism.
Dholakia Dineshchandra Mahendralal	Dr. S. K. Srivastava	Studies on moss cells, grown in Vitro.
<i>Botany</i>		
Bhatt Rajendra Prangovind	Dr. S. D. Sabnis	A study of vegetation and flora of Khedbrahma region of North Gujarat.
Nalla Mallikharjuna Rao	Dr. A. R. Mehta	Growth and nutritional studies of plant tissues cultivated in Vitro.
<i>Chemistry</i>		
Prajapati Ashabhai Parsotambhai	Dr. J. S. Dave	Studies in liquid crystalline state.

<i>Name of the Scholar</i>	<i>Name of the Guiding Teacher</i>	<i>Title of the thesis</i>
Chidambaram M. V.	Dr. P. K. Bhattacharya	Formation and stabilities of some amino acid chelates.
Patel Dahyabhai Chimanolal	Dr. P. K. Bhattacharya	Studies in the relative stabilities of some metal complexes.
Vora Rasiklal Amulakhbhai	Professor J. S. Dave	Mesomorphia behaviour of substituted aromatic esters of cholesterol.
<i>Chemistry</i>		
Rama H. S.	Dr. S. L. Bafna	Molecular sorption studies with ion exchange resins.
Mehta Jayavadan Durgashanker	Dr. S. L. Bafna	Studies on sorption behaviour of ion exchange.
<i>Geology</i>		
Taluja Subhash Chandra	Professor S. S. Merh	Geology of the area south west of Abu Road.
<i>Microbiology</i>		
Ghai Geetha	Professor V. V. Modi	Carbo-hydrate metabolism in ripening mangoes.
Mehta Rajanikant Jagannath	Professor V. V. Modi	Studies on hydrocarbon utilization by bacteria.
<i>Physics</i>		
Pandya Subhash-chandra Ratilal	Dr. H. S. Desai	The calculation of lower and upper bounds of eigenvalues by partitioning technique.
Miss Vaishampayan Nandini Vishwanath	Professor N. S. Pandya	Study of crystal surfaces.
Godbole Ramesh Vinayak	Dr. B. V. Ramana Murty	Simulation of Indian south west monsoon by numerical experiment.
Patel Kasturbhai Lallubhai	Dr. J. R. Pandya	Microtopography and other related properties of crystals.
Kekan Namdeo Lahanu	Professor R. V. Joshi	Optical investigation of divalent doped alkali halide crystals.
Mathrubhutheswaran	Professor N. S. Pandya	Optical and X-ray studies of metals and alloys.

<i>Name of the Scholar</i>	<i>Name of the Guiding Teacher</i>	<i>Title of the thesis</i>
Lanka Hari Hara Prasad	Professor R. V. Joshi	Optical and related properties alkali halides.
Dixit Anilkumar Dattatraya	Professor R. V. Joshi	Optical properties of divalent impurity doped alkali halides.
<i>Zoology</i>		
A. V. Ramachandran	Professor R. V. Shah	Reproductive and developmental physiology of some Amniotes.
Narayan Radha-krishnan	Professor R. V. Shah	Reproductive and developmental physiology of some vertebrates.
Hiradhar Pankaj Kantilal	Professor R. V. Shah	Some aspects of the vertebrate physiology.
Ashani Maina Vallram	Professor R. V. Shah	Studies on some aspects of vertebrate physiology.
Mistry Lalitkumar Nathubhai	Dr. R. M. Naik	Ecological studies of some Indian birds.
Patel Rambhai Mangalbai	Dr. R. M. Naik	Ecological studies on Indian Swifts.
Dave Jitendra Kantilal	Dr. R. M. Naik	Studies on the life history of Indian Swifts.
Shah Vinodkumar Chandulal	Dr. R. M. Naik	Investigation on the ecology of the Indian starlings that are closely associated with man.
<i>Education</i>		
Smt. Buch Piloo Madhusudan	Professor M. S. Patel	Developing a design to improve school adaptability.
Shri Dongre Prabhakar Keshav	Dr. S. M. Divekar	Functions of some auxiliary verbs in Marathi.
Patel Usha Randhirbhai	Professor T. P. Lele	A contrastive study of Gujarati Hindi.
Gadiraju Pattabhi Ram	Dr. B. P. Lulla	An evaluation of nationalised text-books for higher classes in Social Studies in Secondary School of Andhra Pradesh.
Thomas K. T.	Dr. M. A. Quraishi	The educational philosophy of the Bible.

<i>Name of the Scholar</i>	<i>Name of the Guiding Teacher</i>	<i>Title of the thesis</i>
<i>Educational Psychology</i>		
Kodangala R. R.	Professor A. S. Patel	A study on creativity evolving a test to identify children with creative ability of the secondary school-leaving age.
<i>Psychology</i>		
Pratap Swarn Rajaram	Professor A. S. Patel	Construction and standardization of an entrance test for students in Engineering and Technology.
Patel Somabhai Trikambhai	Dr. N. S. Pathak	An investigation to study identification patterns, motivation and school achievement of talented students.

2. Research Schemes financed by the University

<i>Faculty/Department</i>	<i>Research Schemes</i>
Faculty of Arts	
Gujarati	(i) Publication of late Shri B. K. Thakore series.
History	(i) History of Gujarat under the Muslims.
Political Science	(i) Political behaviour in Baroda City during the Fourth General Elections.
Sanskrit	(i) Preparing a critical edition of the Sahityavidyadhari—a commentary on Sri Harsa's Naisadhiya Caritam.
Faculty of Science	
Physics	(i) Study of dislocations and the strength of crystalline solids.
Chemistry	(i) Electron transfer and oxygen absorption reactions.
Botany	(i) Studies on the changes in respiration rate and nitrogen content associated with the growth of plant tissue cultures.
	(ii) Studies on Microclimate.
	(iii) Botanical exploration of selected areas of Gujarat.
	(iv) Survey of Gujarat forests.
Zoology	(i) Study of the Feather Moults.
	(ii) Endocrines and their role in regeneration.

<i>Faculty/Department</i>	<i>Research Schemes</i>
	(iii) Fecundity, mortality and population dynamics of the House Swift.
Bio-chemistry	Studies on limb-bone rudiments of embryonic chicks grown in vitro.
Microbiology	(i) Studies on the enzyme induction and reversible mutation in Molds.
Geography	The towns of Gujarat (1) Population pattern in the towns of Gujarat, (2) Morphology of the towns of Gujarat, (3) Small Ports of Gujarat, (4) Kandala Port.
Geology	A detailed structural and metamorphic study of the central Kumaon Himalayas.
Faculty of Technology and Engineering	
Architecture	Manufacture of special items of building materials and components necessary for modern construction and cost saving techniques.
Chemistry	(i) Intermediates and dyes part I synthesis of anthracene derivatives.
	(ii) Studies in mixed mesomorphism.
Faculty of Education and Psychology	
Psychology	(i) Development of a scale of measure dependence proneness in class room.
	(ii) To study the degree of adjustment of adolescent pupils and its relationship with school achievement.
Faculty of Medicine	
	(i) Abdominal tuberculosis.
	(ii) Scheme for providing grants for the Hystopathology and Mycology Laboratory in order to take over various problems of investigations.
Faculty of Fine Arts	
Dramatics	Scheme of bibliography of plays.

3. Research Schemes sponsored by outside Agencies

The following schemes which have been sponsored by the University Grants Commission, the Ministries of the Central Government, Departments of the Government of Gujarat and other agencies were in progress ;

<i>Department</i>	<i>Title of the Project</i>	<i>Name of the Financing Agency</i>
Faculty of Arts		
Agricultural Economics	(i) Implementation of tenancy abolition in Gujarat State—emerging pattern of land rights and agricultural production	Research Programmes Committee, Planning Commission, Government of India, New Delhi.
	(ii) Changing farm production and organisation in developing agriculture—A case study of the impact of developmental efforts in agriculture in a district in Gujarat State	United States Department of Agriculture, Am-PL-480 programme).
Sociology	Democratic socialization and participant alienation in Mahi Village Panchayat (Kaira District), Vol. I	N.U.C.D., Hyderabad.
	Democratic structure and allegiant adjustment in Mindhola Village Panchayat (Bulsar District), Vol. 2.	N.U.C.D., Hyderabad.
Bio-chemistry	Saurashtra CD Research Project	U.S. Educational Foundation in India, New Delhi.
	(i) Effect of Protein malnutrition and of different protein foods on learning performance	United States Department of Agriculture (Am-PL-480 Programme).
	(ii) Studies on pyridinonucleotide metabolism in normal tissue and crown gall tumour of <i>Althea rosea</i> (Hollyhock)	—do—
	(iii) Ascorbic acid secretion during lactation	—do—
	(iv) Laboratory studies on the fermentative production of microbial lipases that are useful in converting vegetable oils to products of higher value as a basis for increasing the utilization of soyabean and linseed oils	—do—
	(v) Studies on sewage purification	—do—

<i>Department</i>	<i>Title of the Project</i>	<i>Name of the Financing Agency</i>
	(vi) Studies on organic acid metabolism in fruit tissues leading to development of processing methods yielding fruit products of improved flavour and texture	United States Department of Agriculture (Am-PL-480 Programme).
	(vii) Formation of low cost meals for post weaning children in the age group 2-5 years and their chemical and biological evaluation	—do—
	(viii) Psychological and mental studies to measure nutritional impact of the PL-480 Title II programme	United States of American Agency for International Development (USAID).
	(i) Studies on the effect of gibberellic acid, a growth stimulating hormone on cotton and sorghum	United States Department of Agriculture (Am-PL-480 Programme).
Botany	(ii) Survey of Gujarat forests for (a) sources of gallotenic acid, (b) medicinal alkaloids, (c) Tribal uses of plants for medicine, food etc., (d) academic studies (Floristic work)	—do—
	(iii) In vitro studies of the pollen cultures of plants	Gujarat State Industrial Research Committee.
	(iv) Experimental Induction of tissues, differentiation and organ initiation from plant tissues cultured in Vitro	C.S.I.R.
	(i) Recovery and separation of alkaloids using ion exchange compounds	Gujarat State Industrial Research Committee.
Chemistry	(ii) Studies in liquid crystals	—do—
	(iii) Study in liquid crystalline state	C.S.I.R.

<i>Department</i>	<i>Title of the Project</i>	<i>Name of the Financing Agency</i>
Geology	(i) Terrain evaluation project phase II—Studies of south western Rajasthan etc.	Ministry of Defence.
	(ii) Himalayan Geology research scheme	Institute of Himalayan Geology, University of Delhi
Microbiology	(i) Metabolic changes involved in ripening of mangoes	United States Department of Agriculture (Am-PL-480 Programme)
	(ii) Genetic transformation in Rhizobia	—do—
	(iii) Role of biotin in fatty acid biogenesis in molds	C.S.I.R.
Physics	(i) Study of band spectra of some diatomic molecules	Gujarat State Industrial Research Committee
Statistics	Demographic Research Centre	Government of India Ministry of Health
Zoology	(i) Physiology of the Khapra Beetle-Trogoderma Granarium	United States Department of Agriculture (Am-PL-480 Programme)
	(ii) Histophysiological and biochemical studies on the muscle and blood with emphasis on lipid metabolism	Muscular Dystrophy Association of America Inc., U.S.A.
	(a) Effect of denervation and vitamin E deficient diet in the pigeon	—do—
	(b) On samples of muscles biopsies and of blood from human muscular dystrophy patients	—do—

Faculty of Education and Psychology

Psychology	(i) Behavioural problems of normal school going children ages—7, 8, 9 and 10	University Grants Commission
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<i>Department</i>	<i>Title of the Project</i>	<i>Name of the Financing Agency</i>
Faculty of Commerce		
Economics	Mobilisation of resources for Village Panchayats in the Baroda District	R. P. C. Planning Commission, Government of India, New Delhi
Faculty of Technology and Engineering		
Civil Engineering	(i) Sagol Research Project	Department of Industries, Gujarat State
	(ii) Sludge reaeration activated sludge process	C.S.I.R.
Physics	(i) Study of ultrasonic velocity and absorption in metals and metal organic crystals	Department of Atomic Energy, Bombay
	(ii) Visco-elastic properties of liquids	University Grants Commission
Faculty of Home Science		
Child Development	(i) Mental and motor measurements of infants between ages 2 to 5	University Grants Commission
	(ii) Longitudinal growth of Indian children	U. S. Department of Health Education and Administration, Am-PL-480 Programme
	(iii) Effects of school lunch programme on growth rate, physical activity and psychological performance of school-going children in a village	UNICEF, New Delhi
	(iv) Interpersonal relationship of village families, related to problems of Family Planning	Ministry of Health, Government of India
Home Management	(i) Sources and utilization of income and management of money and non-money resources of a selected sample of households from a village and Baroda City over a period of years	Ford Foundation

<i>Department</i>	<i>Title of the Project</i>	<i>Name of the Financing Agency</i>
	(ii) Cost of fuels	Ford Foundation
	(iii) Iron performance	—do—
Home Science Education and Extension	(i) The development of educational methods and materials to help rural and urban families improve levels of living by better use of existing resources	—do—
	(ii) Developing a model construction for organization of Mahila Mandals in rural areas	—do—
	(iii) Application of research findings in changes of Home Science curriculum of Secondary School	—do—
Clothing and Textiles	(i) Clothing usages and practices in India, based on a representation population sample large enough to ensure cells of size sufficient that they can be treated independently in regard to region, religion, caste, education, economic levels, place of dwelling. (Urban and Rural)	—do—
	(ii) Body measurements of men, women and children	—do—
	(iii) Today's fabrics, their selection and care	—do—
	(iv) Study of simulated laundry abrasion and its effects on important physical properties of textiles	University Grants Commission

<i>Department</i>	<i>Title of the Project</i>	<i>Name of the Financing Agency</i>
Faculty of Social Work		
Social Work	(i) A study of the conflicts of the young adult student in relation to parental norms and behavioural manifestation of these	U. S. Department of Health Education and Welfare Am-PL-480 Programme
	(ii) A study of conditions and care of the aged in rural communities as found in certain parts of Gujarat	University Grants Commission

CHAPTER VII—LECTURES AND DEPUTATIONS

1. Lectures

The following lectures were delivered under the auspices of the University, University Grants Commission's Scheme of Exchange of Teachers between the Universities and/or National Laboratories etc.:

(1) The Maharaja Sayajirao Memorial Lectures

Name of the Lecturer	Date	Subject
Dr. S. Chandrasekhar, Minister of State for Health, Family Planning and Urban De- velopment, Government of India	19-11-1968	Problem of Indian Nationality and Nationhood.
	20-11-1968	Steps towards Indian National Integration.

(2) Lectures under Extra Mural Grant, U.G.C. Unassigned grant, etc.

Faculty of Arts		
Dr. Bhagirath Misra, Saugar University, Saugar	25-11-1968	1. Ras ka Swarup. 2. Ras Nispatti.
	26-11-1968	1. Sahitya Samiksha Vividh Drastiya. 2. Tulsi Kruit Bhakti Paddhati Aur Avatar.
	27-11-1968	1. Tulsi Ki Kavya Chetna.
Shri Anantrai M. Raval, Ahmedabad	30-11-1968	Development of Gujarati Gadya.
* Dr. S. Nagrajan, Poona University, Poona	7-11-1968	Political Issues in Shakespeare's Antony and Cleopatra.
Dr. S. C. Rangaswami, Tata Institute of Fundamental Research, Bombay	14-12-1968	Recursive functions and their application in the field of Linguistics.
* Professor M. K. Bambhanja, Professor of Sanskrit, B. J. Insti- tute of Learning and Research, Ahmedabad	13-1-1969	Interpretation of Anubhasya and Salient features of Vallabhacharya's Philosophy (2 Lectures).
* Shri R. A. Dave, Head, Department of English, Sardar Patel University, Vallabh Vidyanagar	18-1-1969	Witman's "A Passage to India"

Name of the Lecturer	Date	Subject
* Dr. V. B. Singh, Reader in Economics, Lucknow University, Lucknow	28-1-1969	1. Labour Commitment in India. 2. Some Landmarks in the Economic History of India 1850-1950.
	29-1-1969	1. 50 Years of Indian Trade Unionism. 2. British Colonisation and Indian Economic Stagnation
	30-1-1969	1. Evolution of Planning in India. 2. Problems of Indian Indus- trial Revolution.
* Dr. R. K. Hazari, Editor, Economic and Political Weekly, Bombay	30-1-1969	Industrial Policy (2 Lectures)
Dr. D. Tripathi, Associate Professor of Economics and History, Institute of Manage- ment, Ahmedabad	1-2-1969	Entrepreneurship and Indian Economic Development.
Dr. R. L. Khandelwal, Vallabh-Vidyanagar	5-2-1969	Prasad-ka-Kavya.
Professor S. G. Malse, Head, Department of Marathi, S.N.D.T. College, Bombay	17-2-1969	Marathi Vinodachi Parampara.
Dr. M. A. Farooque, Head, Department of Urdu and Persian and Islamic Culture, Gujarat College, Ahmedabad	18-2-1969	Glimpses of Modern Persian Poetry.
Dr. V. Venkatachalan, Reader and Head, Sanskrit De- partment, Vikram University, Ujjain	28-2-1969	Advaita Vedanta—The con- summation of Indian Philo- sophical Thought.
Shri G. F. Mankodi, Secretary to the Panchayat and Health Department, Government of Gujarat, Ahmedabad	12-3-1969	Problems of Panchayati Raj in Gujarat (2 lectures).

Name of the Lecturer	Date	Subject
Faculty of Science		
Professor J. J. Ghosh, Biochemistry Department, Calcutta	18-4-1968	Brain Biochemistry.
Dr. R. W. P. Master, Department of Bio-chemistry, Wilson College, Bombay-7	4-7-1968	Nuclocytoplasmic Interactions in a Acetabularia.
Dr. Morton, W.H.O. Visiting Professor	6-7-1968	Aging.
* Dr. P. K. Maitra, Molecular Biology Division, Tata Institute of Fundamental Research, Bombay	6-9-1968	Enzyme regulation and carbo- hydrate metabolism in yeast.
* Dr. G. S. Saharia, University of Delhi	13-9-1968	Some aspects of the Chemistry of Cyclo-octane.
Dr. S. V. Jahihal, Director, Vaccine Research Insti- tute, Baroda	23-9-1968	Viruses.
Dr. J. V. Bhat, Department of Fermentation Che- mistry, Indian Institute of Science, Banglore	28-9-1968	Biochemistry of Micro-organ- isms.
Dr. A. Laheri, Director, Central Fuel Research Institute, Dhanbad. (Bihar)	11-10-1968	Integrated Development of Industries based on coal.
Dr. Doctor, NIH, Washington, U.S.A.	28-10-1968	Genetic code.
* Mrs. Alice Dickinson, Associate Professor, Department of Mathematics, Smith College, Northampton, U.S.A.	November and December, 1968	Rings of continuous functions.
Dr. Ramachandra Rao, Nutritional Research Laboratory, Hyderabad	6-12-1968	Atheroxlerosis.

Name of the Lecturer	Date	Subject
* Dr. Sankar Mitra, Molecular Biologist, Bose Insti- tute, Calcutta	6-12-1969 17-12-1969 18-12-1969	Replication and recombina- tion of DNA and T. phages. Replication of lysogenic phage of DNA. Replication of nucleic acids of small phages.
Dr. R. N. Singh, Department of Botany, Banaras Hindu University, Banaras	30-12-1968	Nitrogen metabolism.
* Dr. V. J. Amin, Alembic Chemical Works, Baroda	2-12-1968 9-12-1968 9-1-1969 16-1-1969 23-1-1969	Biochemical Engineering.
* Professor M. C. Chakrabarti, Head, Statistics Department, Uni- versity of Bombay, Bombay.	24-12-1968 to 30-12-1968	Series of lectures on Design of Experiments.
Professor David J. Dickinson, Associate Professor, Department of Mathematics, University of Massachusetts, Ahherst, Mass. U.S.A.	During the month of November- December, 1968	Lie Algebras and special func- tions.
Professor Stanley Franklin, Carnegie Institute of Technology, U.S.A.	19-12-1968 and 20-12-1968	1. Topology of the Real Numbers. 2. True, false of Independent.
Dr. V. P. Vaishnav, Department of Bacteriology, Medical College, Baroda	13-1-1969	Immuno globulins.
* Dr. M. K. Mehta, Senior Scientific Officer, Atomic Energy Establishment, Trombay	January, 1969	Experimental Nuclear Physics.
* Dr. T. V. Subbiah, Alembic Chemical Works, Baroda	17-1-1969 24-1-1969 31-1-1969 7-2-1969 14-2-1969 21-2-1969	Microbial Genetics.

<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
Professor G. R. Seth, Statistical Adviser, Institute of Agricultural Research Statistics, New Delhi	11-1-1969	Agricultural Statistics.
* Professor P. V. Rangnekar, Professor and Head of the Zoology Department, Bombay	11-1-1969	Endocrinology of Pancreatic Islets in lower vertebrates.
Dr. J. V. Amin, Agricultural Institute, Anand	1-2-1969	Role of minerals in agricultural crops.
Dr. R. Prasad, College of Agriculture, University of Udaipur	20-2-1969	Annual Recurrence of Wheat Rust in India. Host-parasite relationship in rusts and factors affecting variability in Virulence of the pathogen.
Dr. S. S. Pakwasa, Associate Professor in Physics, University of Hawai, Hawai (U.S.A.)	24-2-1969	Elementary Particle.
Dr. U. N. Singh, Tata Institute of Fundamental Research, Bombay	5-3-1969	The mechanism of transcrip- tion and translation.
Dr. M. R. S. Iyengar, Alembic Chemical Works Co. Ltd., Baroda	12-3-1969	Industrial fermentation Trends in methodology.
Prof. U. N. Chatterji, Retired Professor and Head, Department of Botany, Jodhpur University, Jodhpur	14-3-1969	Physiology of seed germination.
Dr. K. S. Margund, Professor of Chemistry, Parle College, Bombay	22-6-1968	Studies in Antitubercular com- pounds.
Dr. Nitya Nand, Scientist incharge Medicinal Chemistry Division, Central Drug Research Institute, Lucknow	1-7-1968	Studies in the synthesis of 5, 6-substituted benzo-cyclo- phtenes.
Faculty of Education and Psychology		
Dr. S. K. Shah	21-11-1968	Building Blocks of the Universe.

<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
*Prof. C. C. Shah	8-1-1969 to 13-1-1969	1. Problems of Education and Social Growth in Develop- ing Countries. 2. Education in India after Independence. 3. Some problems of Indian Education (i) School Education. 4. Some problems of Indian Education (ii) University Education. 5. Qualitative improvement in Education. 6. Problems of Teacher Educa- tion.

Faculty of Commerce

*Dr. V. L. Mote, Professor and External Pro- gramme Director, Indian Insti- tute of Management, Ahmedabad	5-12-1968 6-12-1968 7-12-1968	Linear Programming.
Dr. P. R. Brahmanand, Professor of Economics, Univer- sity of Bombay, Bombay	24-2-1969 25-2-1969	1. The State of the Economy on the eve of the Fourth Plan. 2. International Monetary Crisis.
Shri P. M. Mathew, Personnel Manager, Jyoti Ltd., Baroda	27-2-1969	1. Process of collective bar- gaining. 2. Machinery for the settle- ment of Industrial disputes.
Prof. M. M. Shah, Professor of Commerce, Sardar Patel University, Vallabh Vidya- nagar	28-2-1969	Social and Ethical aspects of Management.
Shri K. J. Divetia, Chief Executive, Sarabhai Chemi- cal, Baroda	1-3-1969	Problems of Professionalisa- tion of Management

Name of the Lecturer	Date	Subject
Prof. Bharat Dalal, Marketing Director, Gujarat State, Fertilizers, Bajwa	12-3-1969	Marketing Strategies (Price and Product).

Faculty of Technology and Engineering

*Dr. G. P. Chatterjee, Research and Scientific Adviser, Hindustan Steel Ltd., (India), Durgapur	16-9-1968 17-9-1968	Fundamentals of Thermo Science Diffusion and its importance in Metallic Materials.
Shri G. S. Khosla, General Manager, Western Rly., Bombay	11-12-1968 12-12-1968	Modernisation of Indian Railways.
Shri V. B. Shah, Assistant Chief Engineer, Ahmedabad Electric Company, Ahmedabad	27-1-1969	Control of Reactive Power by Static compensator.
*Dr. K. M. Kotadia, Reader in University School of Sciences, Gujarat University, Ahmedabad	27-1-1969 28-1-1969	Tonosphere.
*Shri M. C. Doraiswamy, Dy. General Superintendent, Dhuvaran Thermal Station	30-1-1969	Electrical and Mechanical Features of Thermal Power Station.

Faculty of Medicine

Dr. B. N. Purandare, M. D. FRCSE FCOS. FICS FRCOG FAMS	16-12-1968	Place of Social Obstetrics in India and its Organization.
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Faculty of Fine Arts

Shri R. K. Banarjee, Ahmedabad	22-1-1969	Printing Process.
Shri Jayanti Patel, Bombay	25-1-1969	Presentation of one-man play.
Dr. Shrinivas Bhattacharya, Baroda	7-2-1969	Personality and its study.

Name of the Lecturer	Date	Subject
Faculty of Home Science		
Miss May Herner	14-9-1968	Management.
Kum. Shanti Chakravorty	21-1-1969	The present trends in commu- nity development and needed contribution from university departments of education.
Dr. Datta Banik	24-2-1969	Methods and Techniques for measurement somatic growth and its interpretation.
	25-2-1969	Assessment of Development of children by "Gesell De- velopmental Schedules".
Miss Philip Tangam	1-3-1969	Equipment and Equipment Testing.
Mr. Kim Sibley	8-3-1969	Education.
*Dr. A. U. Patel, Professor of Extension Education, Institute of Agriculture, Anand	10-3-1969 to 15-3-1969	(i) Essentials and Accelera- tors for Agricultural De- velopment. (ii) Soil Fertility (iii) Manures and Fertility. (iv) Protecting, crops and shortage of Foodgrains in Homes. (v) Some Sanitary practices of women in an Agri- cultural community. (vi) Common Grounds for Agricultural and Home Science Extension Educa- tors in Curriculum De- velopment and Research in Rural Development.
Mrs. Margaret Wilcox	13-3-1969	Management of the home and community outreach.
Shri S. T. Raja	13-3-1969	Management in Perspective.
Mrs. Wiser	13-3-1969	Living in an Indian village.
Mrs. Licilee Malone	14-3-1969	Need of literature in the field of Home Management.

<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
Mr. P. M. Mathew	14-3-1969	Management of Human Resources.
Kum. Nandita Sarkar	16-3-1969	Role of Home Management in Women's Education.

Faculty of Social Work

Mr. Philipos Mar Cryostom, Bishop of Mar Thome Church, Kerala	20-12-1968	Meeting with Students.
Dr. Bruce Stage, Fullbright Visiting American Lecturer	12-2-1969	Challenges of the city.
Mr. Narayanswami, Personnel Officer, Railway Staff College, Baroda	12-2-1969	Staff Development Programme and an administrator's Role.
Shri Shantikumar Raja, Chairman, Gujarat Electricity Board, Baroda	5-3-1969	The Role of Administrator of Public Sector.
Mr. Pande, Regional Officer, Employees of State Insurance, Ahmedabad.	17-2-1969	State Employers' Insurance Scheme.
Mr. Mathew, Personnel Officer, Jyoti Ltd., Baroda	21-2-1969 22-2-1969	Labour Problems

College of Indian Music, Dance and Dramatics

Dr. Pradipkumar Dixit of Varanasi	16-1-1969	Short speech on Pt. Omkar- nath and his Gayaki and Baithak.
Shri Madhukar Pendse of Hyderabad	8-2-1969	Vocal Baithak.
Shri Yashwantbhai Shukla of Ahmedabad	5-3-1969	Lecture on Gujarati Literature, Drama and new plays.
Smt. Ilakshi Thakore of Ahmedabad	8-3-1969	Lecture on Expression in Dance.
Miss Pratibha Pandit of Baroda	14-3-1969	Talk on Folk Dance of Rajasthan.

* These teachers were invited to deliver lectures under the U.G.C. Scheme of Exchange of Professors.

2. Deputation to Conferences

The following members of the University staff were deputed to attend Conferences, Seminars etc., shown against their names, as delegates of the University during the year :

<i>Name of the members of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
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Faculty of Arts

Professor M. B. Desai, (Agricultural Economics)	Conference of the Indian Society of Agricultural Economics, Coimbatore. Last week of December, 1968.
Professor A. N. Jani, (Sanskrit)	All India Oriental Conference, Varanasi. 12-10-1968 to 14-10-1968.
Dr. S. G. Kantawala, (Sanskrit)	—do—
Professor A. G. Javdekar, (Philosophy)	Indian Philosophical Congress, Patna, 27-12-1968 to 30-12-1968. Akhil Bharatiya Darshan Parishad, Delhi.
Professor S. C. Misra, (History)	Indian Historical Records Commission, Patna, 25-12-1968 to 27-12-1968.
Dr. V. K. Chavda, (History)	Indian History Congress, Bhagalpur, 29-12-1968 to 31-12-1968.
Dr. B. Suryavanshi, (Archaeology)	55, Numismatic Conference at Gorakhpur.
Dr. J. D. Birjeatil, (English)	9th P.E.N. All India Writers' Conference, Ahmedabad, 27-12-1968 to 30-12-1968.
Shri M. M. Dadi, (Economics)	8th All India Economic Conference, Bombay, 16-1-1969 to 18-1-1969.
Shri Thomas Pantham, (Political Science)	Indian Political Science Conference, Bombay, 25-10-1968 to 27-10-1968.
Kum. U. Y. Devaskar, (Sanskrit)	11th Kalidasa Samaroha, Vikram University, Ujjain, 1-11-1968 to 6-11-1968.

Faculty of Science

Professor S. M. Sethna, Dr. P. K. Bhattacharya, (Chemistry)	Indian Science Congress, Bombay—January, 1969.
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<i>Name of the members of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
Dr. S. D. Sabnis, (Botany)	Indian Science Congress, Bombay—January, 1969.
Professor U. N. Singh, Shri V. M. Shah, Shri O. P. Goyal, (Mathematics)	34th Annual Conference of the Indian Mathematical Society at Bangalore from 22-12-1968 to 25-12-1968.
Dr. P. K. Bhattacharya, Shri V. N. Dholakia, Shri M. G. Parekh, Shri R. J. Chudgar, (Chemistry)	Annual Convention of the Indian Chemical Society, Ahmedabad.
Professor N. S. Pandya, (Physics)	1. Solid State Physics Symposium, I.I.T., Powai, from 28-12-1968 to 31-12-1968. 2. Seminar of Science Teachers of South Gujarat University from 25-12-1968 to 27-12-1968.
Professor (Smt.) Indira Bhanot, (Statistics)	Participated in Conference of Project Directors organised by the Central Family Planning Institute at Delhi in January, 1969.
Shri M. M. Gandotra, (Demographic Research Centre)	Participated in a "Conference of 1971 Data users" organised by the Registrar General of India at Delhi in October, 1968.
Shri M. L. Gupta, (Statistics)	Seminar on Stochastic Theory and Applications at Madras for 3 weeks in September-October, 1968.

Faculty of Education and Psychology

Professor D. M. Desai, (Educational Adm.)	11th Conference of Indian Association of Teacher Educators, Ahmedabad, 28-10-1968 to 30-10-1968.
Dr. S. Bhattacharya, (Psychometric)	Conferences of Indian Academy of Applied Psychology, Mysore, 27-12-1968 to 29-12-1968. 56th Session of Indian Science Congress, Bombay, 3-1-1969 to 9-1-1969.
Dr. G. B. Shah, (Education)	Workshop for Training of Resource Persons for Classroom Experiments Projects, Mysore, 9-12-1968 to 15-12-1968.

<i>Name of the members of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
Dr. N. S. Pathak, (Psychology)	Seminar on "Adjustment Problem of College Students," Bangalore, 22-11-1968 to 24-11-1968.
Dr. (Smt.) M. S. Warty, (Psychology)	Conference of the Indian Academy of Applied Psychology, Mysore, 27-12-1968 to 29-12-1968. 56th Session of the Indian Science Congress, Bombay, 3rd to 9th January, 1969.
Faculty of Commerce	
Dr. K. N. Naik, (Co-operation)	Seminar on Financing of Agriculture by Commercial Bank organised by the Reserve Bank of India, Bombay, 6-7-1968, December, 1968.
Shri R. D. Pandya, (Banking and Business Finance)	Seminar on Students' Services, Bloomington, Indiana, U.S.A., 18-3-1968 to 24-5-1968.
Shri A. G. Patel, (Accountancy)	Seminar on Taxation of Agricultural Land and Income in India at Vallabh Vidyanagar, 8-3-1969 and 9-3-1969.
Faculty of Medicine	
Dr. A. K. Niyogi, (Prev. and Soc. Med.)	W.H.O. Workshop teaching method at New Delhi from 11-3-1969 to 22-3-1969.
Dr. S. H. Shah, (Paediatrics)	—do—
Dr. R. V. Bhatt, (Obs. and Gyn.)	—do—
Dr. V. P. Vaishnav, (Pathology)	Role of Pathology, Medical Education, Mysore from 20-1-1969 to 23-1-1969.
Dr. C. P. Shah, (Medicine)	—do—
Dr. S. H. Shah, (Paediatrics)	Neonatal Conference at Bombay from 20-1-1969 to 31-1-1969.
	Mother and Child Health Organisation Conference at Delhi from 8-3-1969 to 20-3-1969.
Dr. A. S. Chikarmane, (Paediatrics)	Annual Conference of Indian Academy of Paediatrics at Lucknow from 11-2-1969 to 22-2-1969.

*Name of the members
of the staff*

Dr. R. V. Bhatt,
(Obs. and Gyn.)

Dr. A. C. Shah,
(Surgery)

*Name, place and dates of the Conferences,
Seminars etc.*

International Seminar on Maternal Mortality and Family Planning at Bombay from 3-3-1969 to 8-3-1969.

Seminar on Renal Failure at Bombay from 29-11-1968 to 1-12-1968.

4th Asiatic Conference of Obstetrics and Gynaecology at Singapore from 15-11-1968 to 24-11-1968.

All India Surgeon Conference at Madras--December, 1968.

Faculty of Technology and Engineering

Dr. R. C. Desai,
(Elect. Engg.)

Dr. S. J. Shah,
(Text. Engg.)

Shri R. J. Mistry,
(Text. Engg.)

Professor J. S. Dave,
(Chemistry)

Dr. A. P. Verma,
(Mathematics)

Shri R. A. Vora,
(Chemistry)

Shri R. M. Pancholi,
(English)

Shri Y. A. Shaikh,
(Chemistry)

Shri R. P. Gupta,
(Text. Chem.)

IERE Symposium on Electronics in Industry sponsored by I.I.T., New Delhi from 11-9-1968 to 14-9-1968.

Fourth Technological Conference of Sasmira held at Bombay on 21-2-1969 and 22-2-1969.

Textile Engineering Seminar held at I.I.T., Delhi from 20-1-1969 to 25-1-1969.

1. 56th Annual Session of Indian Science Congress at Bombay from 3-1-1969 to 9-1-1969.

2. Annual Convention of the Chemical Research Committee of the CSIR held at Hyderabad from 7-2-1969 to 9-2-1969.

56th Annual Session of Indian Science Congress held at Bombay from 3-1-1969 to 9-1-1969.

—do—

Seminar on some aspects of Modern English Grammar held at Central Institute of Engineering, Hyderabad from 3-10-1968 to 11-10-1968.

6th Annual Convention of the Indian Chemical Society held at Ahmedabad from 27-10-1968 to 30-10-1968.

Silver Jubilee Conference of the Textile Association held at Delhi on 13-4-1968 to 14-4-1968.

*Name of the members
of the staff*

Dr. (Mrs.) Pramila T.
Phatak,
(Child Development)

Shri I. P. Shelat,
(Social Work)

*Name, place and dates of the Conferences,
Seminars etc.*

Faculty of Home Science

National Conference of IAP (Paediatrics), Lucknow, 12-2-1969 to 15-2-1969.

Camp-cum-Conference at (Sevagram) Wardha of National Service Scheme; February 12 to 21, 1969.

CHAPTER VIII—FACULTY OF ARTS

1. Review of Progress of Reforms introduced in the Faculty

The Department of Linguistics introduced the reform of organising the teaching of the F.Y.B.A. Class in Linguistics along the lines of Programmed Instruction. It prepared text in Elementary Linguistics for the purpose. It has been found that the students have been able to progress better with this change in the methodology of teaching.

2. Some New Experiments begun during the year

In the Department of Economics, objective type of questions and problem solving approach have been introduced in some papers.

The F.Y.B.A. students were asked by the Department of Linguistics to join the Informant Sessions. It was found that a little practical slant to the teaching of theoretical subjects brings home many points in the analysis of language which mere reading of theories does not.

3. Courses of Studies

(a) There was provision for the following courses during the year:

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

(b) The following new courses were introduced during the year:

- (i) A new paper on "Modern Political Thought in India and the West" was introduced to replace the paper on "History of Political Thought from Marx to Present Day". (Teaching to start next year).
- (ii) A new paper on "India in World Affairs" was introduced to replace the paper on "International Relations: Regional Studies (East Asia or West Asia)." (Teaching to start next year).

(c) The following courses were modified during the year:

F.Y.B.A. course in Political Science was revised and split into two sections: (1) Political Theory and (2) Political Organisation. S.Y.B.A. and T.Y.B.A. (Major) in Political Theory was revised and a new topic on 'Contemporary Political Analysis' was added to it.

S.Y.B.A. and T.Y.B.A. (Major Course) in International Relations was revised and the topics were rearranged. The book list for some of the papers were revised and brought uptodate. The paper on "Advanced Political Theory" for the M.A. was modified to provide for Contemporary Political Analysis.

In all Departments, the two major papers to be examined in at the end of the Second Year B.A. have been specified and approved. From 1970, students admitted to S.Y.B.A. will appear in two of these papers in the Major Subject along with English and the papers in the Minor Subject. At the Post-graduate level, the Faculty accepted, in principle, the holding of the M.A. Examination in two parts. The details are being worked out and will be put before the next meeting of the Faculty of Arts.

4. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1968-69 was as under:

Class	Men	Women	Total
(1) Certificate Course in German	288	45	333
(2) Certificate Course in French	80	25	105
(3) Certificate Course in Russian	19	2	21
	<u>387</u>	<u>72</u>	<u>459</u>
(4) Diploma Course in Russian	9	5	14
(5) Diploma Course in German	23	2	25
	<u>32</u>	<u>7</u>	<u>39</u>
(6) F.Y.B.A.	203	279	482
(7) S.Y.B.A.	190	289	479
(8) T.Y.B.A.	157	233	390
	<u>550</u>	<u>801</u>	<u>1351</u>
(9) Library Science	8	22	30
(10) Jr. M.A.	71	52	123
(11) Sr. M.A.	80	42	122
	<u>151</u>	<u>94</u>	<u>245</u>
(12) Ph.D.	8	2	10
Grand Total	1136	998	2134

5. Staff

During the year, the staff of the Faculty consisted of 9 Professors, 12 Readers, 40 Lecturers, 21 Assistant Lecturers, 4 Part-time Teachers, 19 Class III, other staff including Technicians in the Department of Archaeology and 20 Class IV staff. The teachers of the Faculty carried out assignments in other Faculties and Institutions where Humanities and Social Sciences are included in their courses.

(a) New appointments

NIL

(b) Teachers who left

Name	Designation	Date of leaving	Reason of leaving
(1) Professor I. S. Gulati	Professor and Head, Department of Economics	16-7-1968	For better prospects
(2) Dr. L. S. Venkatramanan	Reader in Economics	4-6-1968	—do—
(3) Dr. J. C. Sandesara	—do—	1-9-1968	—do—

6. Professional Growth of the Staff

(a) Published Articles/Papers in Indian and/or Foreign journals of merit.

Sr. No.	Name	Title of Articles or Paper	Name of the Journal wherein published with month of Publication
(1)	Professor R. N. Mehta	(i) Sudarshan Lake (ii) Murki Swadhyaya (iii) Itihasni Shodhama	Journal of the Oriental Institute, Vol. XVIII, 1 and 2, 1968. Swadhyaya Book 6, No. 2, 1968-69. Vidyapith, September, 1968.
(2)	Dr. S. C. Malik	(i) Recent Field Research on Problem of Archaeology and Pleistocene Chronology in Peninsular India	Proceedings of the Prehistoric Society (for 1967), 1968, England.

Sr. No.	Name	Title of Articles or Paper	Name of the Journal wherein published with month of Publication
(ii)		Archaeology as a source in writing Socio-Cultural and Socio-Economic History	Eastern Anthropologist (London), September, 1968
(3)	Dr. K.T.M. Hegde	Source of the metal in the Lead Coins of the Kshatrapa Period	Current Science, Vol. 37, No. 18, September, 1968.
(4)	Professor M. B. Desai	A Report on Textile Wage Board of India	Government of India Publication, March, 1969
(5)	Smt. M. N. Shah	An Educated Woman in Perspective	Progress of Women's Education in Free India, Edited by N. B. Sen.
(6)	Shri A. P. Rana	The Intellectual Dimensions of India's Non-alignment	The Journal of Asian Studies (Syracuse University, N.Y.), February, 1969.
(7)	Shri Thomas Pantham	The Communications Approach to Political Development	The Indian Journal of Political Science, July to September, 1968.
(8)	Professor A. G. Javadekar	(i) Swatantrataka Swarup (ii) Valuational Determination of the Validity of religious experience (iii) The concept of Maya	Darshanik Quarterly, October 1968. Akhil Bharatiya Parishad, Delhi. Gurudeo Ranade Academy of Philosophy and Religion at Belgaum, October, 1968. Indian Philosophical Annual, Vol. 2, 1969.
(9)	Dr. S. H. Joshi	Ghatana Tatwano Iop	Viswa Manav.
(10)	Dr. Y. J. Tripathi	Jivandas Krit Mahimahatmya	Swadhyaya, No. 4.
(11)	Dr. M. G. Gupta	(i) Nai Kavita Aur Ashtha Bodh	Agli Kavita-Special Number, March, 1969.

Sr. No.	Name	Title of Articles or Paper	Name of the Journal wherein published with month of Publication
		(ii) Baudhik Ras aur Akavita	Budhik Laghukavita Special No, December, 1968.
		(iii) Santkaviji Akha ki Hindi Rachanayae	Published in Gujarat ke Santo ki Hindi Vani by Sardar Patel University of Vallabh Vidyanagar.
(12)	Professor A. N. Jani	(i) Did Nandanandana write a commentary on the Naishadhiya-caritam?	Journal of the M. S. University of Baroda Vol. XVI, No. 1.
		(ii) In Memorium to Dr. S. S. Bhawe (In collaboration with Dr. S. G. Kantawala)	Journal of the Oriental Institute, Vol. XVIII, Nos. 1 and 2.
(13)	Dr. S. G. Kantawala	Asvina	Journal of the M. S. University of Baroda Vol. XVI, No. 1.
(14)	Professor V. Y. Kantak	(i) Yeats's Meditation on the Bestial Floor	Journal of Comparative Literature, Vol. VII, August, 1968.
		(ii) Art and Artifice in American Poetry	Chapter in Book: Indian Essays in American Literature, January, 1969.
(15)	Shri R. N. Mehta	Mr. Higginbotham's Catastrophe	Chapter in Book: Indian Essays in American Literature, January, 1969.

(b) Published Books and Brochures :

Sr. No.	Name	Title	Name of the publisher with month of Publication
(1)	Professor R. N. Mehta	Gujarat ne Malel Shilp Sthapatyano Varaso	Gujarat University, 1968.

Sr. No.	Name	Title	Name of the publisher with month of Publication
(2)	Dr. S. C. Malik	Indian Civilization: The Formative Period	Indian Institute of Advanced Study, Simla, September 1968.
(3)	Dr. K. C. Panchanadikar and Dr. (Smt.) J. Panchanadikar	Determinants of Social Structure and Social Change in India	Popular Prakashan, Bombay.
(4)	Shri Thomas Pantham	Voting Behaviour in Baroda City: A 1967 General Election Study	The M. S. University of Baroda Press, 1968.
(5)	Dr. V. K. Chavda	Study of Human Civilization	Acharya Book Depot Baroda, June, 1968.

(c) Talks given at important meetings :

(1) Talks were given by Professor R. N. Mehta (Archaeology and Ancient History) at the Universities of Pennsylvania, Harvard, Chicago, California and Partice Lumba University, Moscow.

(2) Shri A. P. Rana, Reader in Political Science gave a talk on " The Political Credibility of India's Foreign Policy " at University College, London, in May 1968.

(d) Participation in Inservice Programme :

(i) As a Participant:

(1) Shri D. D. Mahulkar, Head, Department of Linguistics worked as Director of the Summer School of Linguistics organised by the M. S. University of Baroda and the Linguistics Society of India with monetary help from the U.G.C. in May 1968. He also lectured to the students of the Summer School on Linguistics, Indian Linguistics and Mathematical Linguistics.

(2) Professor V. Y. Kantak, Head, Department of English was invited to give a paper at the Shakespeare International Conference, Stratford-upon-Avon, England in September 1968. He was invited to be Senior Scholar in residence at the American Studies Research Centre, Hyderabad from September 1968 to March, 1969.

(e) Research work done by teachers of their own without any financial assistance from the University or any outside agencies :

Research Work Completed :

(1) Professor R. N. Mehta, completed the study of Nagarkhand.

- (2) Professor K. S. Desai, Department of Political Science
- (i) A study of Government of India field Agencies in Baroda.
 - (ii) A study of the organisation and working of the Baroda Municipal Corporation with emphasis on its sources of income.
 - (iii) Union State Relations in Labour Administration with special reference to Gujarat.

Research Work in Progress :

- (1) Department of Archaeology
- (i) Prabhasa khand in Progress.
 - (ii) Exploration around Kaira, Mehmdabad, Junagadh and Champaner.
 - (iii) Narmada Valley jointly with the Cambridge University.
 - (iv) Excavation at Inamgaon were attended by Dr. Chowdhary.
- (2) Professor K. S. Desai, Political Science Department
- Political Dynamics in India and U.S.A.—A Comparative Study.
- (3) Shri A. P. Rana, Political Science Department
- Indian Public attitudes towards the issues of India's National Security 1947-1962 (Doctoral dissertation).
- (4) Shri D. H. Mohite, Political Science Department
- (i) Civil Liberties enjoyed by the under-privileged section of the Indian and American Societies: A Comparative Study (Doctoral dissertation).
 - (ii) A study of Municipal elections in Baroda in June 1968.
- (5) Shri Thomas Pantham, Political Science Department
- A study of the Political leadership in Baroda.
- (6) Professor S. C. Misra, History Department, and Professor R. N. Mehta
- An Archaeological exploration of the medieval site of the City of Champaner.
- (7) Professor A. G. Javadekar, Philosophy Department
- Valuational application to various disciplines of Philosophy and Knowledge.

- (8) Shri G. S. Purohit, Hindi Department
- Prasad or Nanalal ki Kavya Kala ka Tulnatmak Adhyayan.
- (9) Shri A. K. Goswami, Hindi Department
- Gujarat ki Hindi Vaishnav kavya Parampara tatha Mahakavi Dayaram.
- (10) Shri R. N. Talati, Hindi Department
- Vaishnav Sampradayaki Seva-Bhavana aur Surdas ka Kavya.
- (11) Dr. S. G. Kantawala, Sanskrit Department
- Research in the field of Vedic and Puranic Mythology.
- (12) Shri R. M. Pancholi, English Department
- Mathew Arnold's Theory.

7. Museum, Laboratory, Studios, Workshops etc. :

The following is the statement of the cost of equipments :

Sr. No.	Item	Cost of equipment as on 1-4-1968 Rs.	Cost of equipment written off during the year Rs.	Cost of equipment added during the year Rs.	Cost of equipment as on 31-3-1969 Rs.
(1)	Museum	4,533-98	—	—	4,533-98
(2)	Studio	15,320-40	—	—	15,320-40
(3)	Drawing equipment	1,806-75	—	—	1,806-75
(4)	Deadstock	56,741-17	—	6,397-00	63,138-17
(5)	Excavation equipment	1,622-05	—	—	1,622-05
		80,024-35	—	6,397-00	86,421-35

8. Distinguished Visitors during the year :

Name	Date of the Visit
(1) Mr. Hitomi, Consul General for Japan	19-12-1968
(2) Clarie C. Davision, University of California	10-11-1968
(3) Dr. Raymond Allchin, University of Cambridge, England	21-2-1969
(4) Dr. William R. Burch, Associate Professor of Forest, Sociology School of Forestry, Yale University, New Haven (U.S.A.)	18-3-1969 19-3-1969

9. Other Important Events :

(1) Professor K. S. Desai of the Department of Political Science was elected President of the Gujarat Rajya Shastra Mandal for two years.

(2) A grant of Rs. 2,000/- was received from the Indian Institute of Public Administration, New Delhi for the research project on "The Citizen and the Municipal Administration in Baroda". The project is to be carried out on behalf of the Local Branch of Indian Institute of Public Administration.

(3) Professor A. G. Javadekar, Head, Department of Philosophy worked as Chairman, National Integration Samiti of the M. S. University of Baroda.

(4) Professor S. C. Misra, Head, Department of History and the Dean is connected with the following Societies and Institutions :

- (a) President of the Gujarat Itihas Parishad.
- (b) Member of the Indian Historical Records Commission.
- (c) Member of the Executive Committee of the Indian History Congress.
- (d) Editor of the M. S. University Journal, Humanities Number.

(5) Professor M. B. Desai, Head, Department of Agricultural Economics is associated as member on the various Committees of Government of India, Government of Gujarat, Gujarat and South Gujarat Universities. He worked as Director in-charge of the Research Project on the implementation of tenancy abolition in Gujarat, emerging pattern of land rights and Agricultural Production entrusted by R. P. C. Planning Commission, New Delhi. He also worked as Vice-President on the Board of Directors of the State Bank of India, Ahmedabad Circle.

(6) Professor A. N. Jani, Head, Department of Sanskrit is awarded the D.Litt. Degree by the University of Bombay for his work "Ras Kaumudi of Shrikanth" published in G.O. Series No. 143.

(7) 9 Feature films and 13 Documentary films were shown by the Department of German. A Photographic Exhibition on Western Musical Instruments was held on 10th, 11th and 12th July, 1968. The Department of German staged a drama "The Countess of Barnhelm" on 16th January, 1969.

(8) The Shakespeare Society presented two plays—'The Crucible' and 'Arms and the Man' on 11, 12, 13 and 14 February, 1969.

CHAPTER IX—FACULTY OF SCIENCE

1. Courses of Studies

(a) *There is provision for teaching the following courses :*

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

The new B.Sc. course started in June 1957, is an integrated three-year degree course after Preparatory Science during which a student studies one Principal subject and two subsidiary subjects, out of the following :

Botany, Chemistry, Economics (Subsidiary only), Geography, Geology, Mathematics, Physics, Statistics and Zoology. The M.Sc. course is of two years after B.Sc. and it is only by papers or by papers and dissertation but not by research alone. The Ph.D. course is by research only and is of two years' duration after M.Sc.

The subjects of M.Sc. course and Ph.D. course are Bio-chemistry, Botany, Chemistry, Geography, Geology, Mathematics, Microbiology, Physics, Statistics and Zoology.

(b) *New courses introduced during the year :*

A two-year course in Diploma in Laboratory Techniques was started in the Department of Bio-chemistry from this year. Students who have passed S.S.C. and worked in any laboratory for one year are eligible for admission to this course. The course is conducted as an evening course from 6 p.m. to 9 p.m.

(c) *Courses modified during the year :*

- (1) M.Sc. Petroleum Geology—one year course was started from this year.
- (2) A separate course in Principal Physics for F.Y.B.Sc. students has been started from this year.

2. Number of Students

The number of men and women students on roll in the various classes in the year 1968-69 were as under :

1968-69

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Class	Boys	Girls	Total
Pre-Medical	118	14	132
F.Y.B.Sc.	249	91	340
S.Y.B.Sc.	213	86	299
T.Y.B.Sc.	190	69	259
M.Sc. Previous	111	43	154
M.Sc. Final	109	27	136
M.Sc. Applied Geology	5	—	5
Ph.D.	45	6	51
Total	1040	336	1376

3. Staff

(a) Present Position :

The staff of the Faculty consisted of 13 Professors, 29 Readers, 63 Lecturers, 67 Assistant Lecturers, 89 class III and 72 class IV servants. The teachers of the Faculty carried out teaching assignments in other Faculties and Institutions of the University, where science subjects are included in their courses, e.g. Preparatory Unit, Faculty of Arts, Faculty of Commerce, Faculty of Home Science, Faculty of Technology and Engineering, College of Indian Music, Dance and Dramatics and Polytechnic. They also delivered lectures under General Education Programme, helping the General Education Department.

(b) New appointments:

Sr. No.	Name	Designation	Department
1	Dr. V. V. Modi	Professor	Microbiology
2	Dr. R. V. Shah	Professor	Zoology
3	Smt. I. V. Bhanot	Professor	Statistics
4	Shri M. D. Dumasia	Lecturer	Microbiology

(c) Teachers who left:

Sr. No.	Name	Designation	Reason
1	Dr. J. C. George	Professor of Zoology	To go abroad
2	Dr. N. M. Bhatt	Professor of Statistics	Retired
3	Shri S. V. Gadre	Lecturer in Microbiology	For better prospects

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Sr. No.	Name	Designation	Department
4	Shri I. H. Sheth	Lecturer in Mathematics	For better prospects
5	Dr. H. R. Chokshi	Lecturer in Biochemistry	To go abroad
6	Dr. N. M. G. Bhaktan	Lecturer in Zoology	To go abroad
7	Shri A. J. Patel	Lecturer in Biochemistry	To go abroad
8	Dr. B. K. Shah	Lecturer in Statistics	To go abroad

4. Professional Growth of the Staff

(a) Published Articles/Papers in Indian and/or Foreign Journal of merit.

(i) Articles:

Sr. No.	Name/s	Title	Name of the publisher
1	Rajalakshmi R., and Patel A. J.	Effect of tranquillizers on regional distribution of ascorbic acid in the rat brain.	J. Neurochem. 15, 195-199 (1968)
2	Rajalakshmi R.	(i) The Psychological status of under-privileged children reared at home and orphans in the South India (ii) Malnutrition and retarded growth in man	Ind. J. Mental Retardation (1968) In "Malnutrition, learning and behaviour" Ed. N. S. Scrimshaw & J. E. Gorden, p. 81-83 M.I.T. Press, Boston, 1968
		(iii) Factors of the Social environment affecting learning and behaviour	In "Malnutrition, learning and behaviour" Ed. N. S. Scrimshaw & J. E. Gorden, p. 361-363, 1968

Sr. No.	Name/s	Title	Name of the publisher
		(iv) Effect of malnutrition learning and behaviour in rats	In "Malnutrition, learning and behaviour" Ed. N. S. Scrimshaw & J. E. Gordon, p. 228-230, 1968
3	Patel A. J. and Ramakrishnan C. V.	Studies on Avian and Mammalian Heart Tissues	Biochem. Comp. Physiol. 28. 803-815 (1969)
4	Rajalakshmi R., Pillai K. R. and Ramakrishnan C. V.	Effects of different supplements to low protein and poor quality protein diets on performance and brain enzymes in the albino rat	J. Neurochem. (1969)
5	Rajalakshmi R., and Ramakrishnan C. V.	Horticulture in relation to nutritional requirements	PL Fds. hum. Nutr. 1, 11-24 (1968).
6	Prathapasenan G., Kamalavalli D. and Pathak C. H.	(i) Retarded rate of germination in cotton.	Jour. of the M. S. Univ., 1968.
		(ii) Effect of temperature and fixative on the histochemical localization of acid phosphatase in the root of sorghum	Jour. of M. S. Univ., 1968.
		(iii) Role of Cyanide in the histochemical study of succinic dehydrogenase in the roots of sorghum	Ind. J. Exptl. Biol. 1969.
7	D. Leela and Pathak C. H.	(i) Effects of the Omission of Nitrogen and Sulphur on the growth and enzyme activity of the excised roots of <i>Trigonella Foenumgraecum</i>	Jour. M.S. Univ., Vol. XV and XVI, No. 3 of 66-67. Publ. in December, 1968.
		(ii) Effects of the Omission of different components of the Modified White's medium on the growth of the excised roots of <i>Trigonella Foenumgraecum</i> L.	—do—

Sr. No.	Name/s	Title	Name of the publisher
8	Jayachandra and Pathak C. H.	(i) Competitive ability of weed-Stachytrapheta Urti-Caeifolis (Salisb) Sim. with the crops—Cotton, Pear Millet (Bajra) and Fenugreek (Methi), in the early stages of development	Jour. M S. Univ. Vol. XV and XVI, No. 3 of 66-67. Publ. in December, 1968.
		(ii) Competition between Acantho-spermum Australe (Linn.) Luntz. and the crops—Cotton, Bajra and Methi, during their early stages of development	—do—
		(iii) Performance of seedling of some weeds under different environmental conditions.	—do—
9	Bedi, Sabnis and Bhatt	Additions to the Flora of Pavagadh Hills, Gujarat State	J. Bom. Nat. Hist. Soc., Vol. 65 (2)
10	R. A. Balani and Suresh Sethna	Studies on 4-4' Dihydroxy benzo-phenone and its dimethyl ether	J. Indian Chem. Soc. 1968, 45, 390
11	V. S. Salvi and Suresh Sethna	(i) Studies in Furan derivatives Part IV. Synthesis of some bromo and iodo benzo-furan derivatives	J. Indian Chem. Soc. 1968, 45, 433.
		(ii) Studies in Furan derivatives Part V. Synthesis of some furo-coumarins	J. Indian Chem. Soc. 1968, 45, 439.
12	R. J. Chudgar and K. N. Trivedi	Synthesis of 4, 4' cyanoethylene bis (2, 2' dichloroquinoline) and 4, 4' cyanoethylene bis (2, 2' dehydroxyquinoline) derivatives.	Current, Science 1968, 37, 344.
13	R. S. Hegde, M. J. Mehta, R. A. Bhatt, D. J. Patel and S. L. Bafna	Molecular sorption on ion exchange resins : Studies with coumarin	Journal of Pharmaceutical Science, 1968, 57, 598.

Sr. No.	Name/s	Title	Name of the publisher
14	D. J. Patel and S. L. Bafna	Molecular sorption in ion exchange resins: Sorption studies in some organic solvents	Indian Journal of Chemistry, 1968, 6, 199.
15	M. G. Parekh and K. N. Trivedi	Studies in synthesis of coumarinopyrones and furocoumarins Part IV.	Journal Indian Chemistry Soc 1968, 45, 649.
16	V. N. Dholakia, M. G. Parekh and K. N. Trivedi	Studies in 4-Hydroxycoumarins Part II. and pyrones from 4-Hydroxycoumarins	Australian Journal of Chemistry, 1968, 21, 2345.
17	C. V. Bhat, B. R. Kamath, R. S. Shah, S. S. Kanhere & S. L. Bafna	Studies with ion exchange resin on cinchona alkaloids II: Effects of the ionic form and of the solvent medium	Journal of Pharmaceutical Sciences, 1968, 57, 1195.
18	B. R. Kamath, C. V. Bhat and S. L. Bafna	Ultraviolet absorption spectra: Part III. Cinchona alkaloids	Indian Journal of Chemistry, 1968, 6, 510 E.
19	A. M. Talati and P. M. Patel	Chelating N-Ligands and their transition metal complexes: Part III.	J. Indian Chemical Society, 1968, 45, 242.
20	A. M. Talati and T. I. Patel	Chelating N-Ligands and their transition metal complexes: Part IV	J. Indian Chemical Society, 1968, 45, 205.
21	A. M. Talati	Semiconducting coordination polymers	Labdev, 1968, 6A, 158.
22	B. Chinoy, E. Gellert, and K. N. Trivedi	A new synthesis of phenanthroiondolizidine	Australian Journal of Chemistry, 1969, 22, 427.
23	M. J. Mehta, R. S. Hegde, R. A. Bhatt, D. J. Patel and S. L. Bafna	(i) Ultraviolet absorption spectra, 4-hydroxy-coumarins (ii) Molecular sorption on ion exchange resins: Effect of the solvent and solute structure	Journal of Applied Chemistry, 1969, 19, 29 J. Indian Chemical Society, 1969, 46, 130.

Sr. No.	Name/s	Title	Name of the publisher
24	(Kum.) B. Kanaklakshmi	Synthesis of some 3'', 3'', 4', 4'' and 6, 6'' -biflavonyls	J. Indian Chemical Society, 1969, 46, 279.
25	S. S. Merh and M. G. Hardes	(i) Structural geology of the area south and southwest of Bhuj (Kutch) (ii) A note on the probable origin of some patches of Miliolite like limestones of the area south and southwest of Bhuj (Kutch-Gujarat)	0.174, Proc. 56th Ind. Sci. Cong. Part II, 1969 Abstracts. The M. S. Univ. Sci. Journal (Science No.)
26	S. S. Merh and Y. V. Deshpande	On synkinematic granitization in the Ankola-Gokarn area (N. Kanara, Mysore State)	P. 181, Proc. 56th Ind. Sci. Cong. Part III, 1969 Abstracts
27	S. S. Merh and D. T. Brahmabhatt	Ultramafic rocks of Gujarat and South Rajasthan	P. 188, Proc. 56th Ind. Sci. Cong. 1969, Part III.
28	S. J. Desai and S. S. Merh	A note on the relation between metamorphism and deformation in the Majkhali area near Ranikhet (Almora)	P. 195, Proc. 56th Ind. Sci. Cong. Part III, 1969, Abstracts.
29	B. B. Jambusaria	Sedimentary Structures in turbidities of Champaner series near Undhania in Gujarat	P. 206, Proc. 56th Ind. Sci. Cong. Part III, 1969 Abstracts.
30	G. T. Malpathak and S. D. Desai	Groundwater conditions of Padra Taluka, Baroda District, Gujarat State	P. 235, Proc. 56th Ind. Sci. Cong. 1969 Abstracts
31	V. N. Kulkarni and S. S. Merh	Economics of the miliolite limestones of Saurashtra	P. 234, Proc. Ind. Sci. Cong. Part III, 1969 Abstracts
32	S. D. Desai and D. T. Brahmabhatt	A note on the occurrence and Nature of Deposition of Bagh Beds in Gujarat	The M. S. University Journal (Sci.) Vol. XV and XVI, No. 3, 1966-67.

Sr. No.	Name/s	Title	Name of the publisher
33	Shri V. M. Shah	On the partial sums of a lacunary Fourier series.	Jour. of M. S. Uni. of Baroda, Baroda.
34	G. Y. Vahora, S. Selvin and V. V. Modi	Studies on Tetanus Bacilli from hospital and other sources in Baroda	Indian Journal of Pathology and Bacteriology (1968) 11, 85.
35	V. R. Rao and V. V. Modi	Nitrogen enrichment in sludge by bacterization	Current Science (1968) 37, 407.
36	A. K. Mattoo, V. V. Modi and V. V. R. Reddy	Oxidation and carotenogenesis regulating factors in mangoes.	Indian Journal of Biochemistry (1968) 5, 111.
37	K. K. Rao and V. V. Modi	Metabolic changes in biotin deficient <i>Aspergillus nidulans</i>	Canadian Journal of Microbiology (1968) 14, 813.
38	A. K. Mattoo and V. V. Modi	Ethylene and ripening of mangoes	Plant Physiology (1969) 44, 308.
39	M. M. Patel and A. B. Darji	Band spectra of Hg Br in the ultraviolet region.	Indian J. of Phy. Vol. XLII, No. 2, 110-119 (1968)
40	M. M. Patel, S. P. Patel and A. B. Darji	Band spectra of diatomic CdI in the visible region	Indian J. of Pure and App. Phys. 8, 342-343. (1968)
41	M. M. Patel and K. Jacob Rajan	The emission spectra of ZnBr in the visible region	Indian J. of Phy., Vol. XLII, No. 2, 125-130 (1968)
42	M. M. Patel and P. D. Patel	Rotational analysis of (0, 0) Bands of $A^2 X^3$ system of MgBr Molecular	Indian J. of Phy., Vol. XLII, No. 7, 419-424 (1968)
43	S. P. Patel and A. B. Darji	Band spectrum of Cadmium iodide molecule in the region 2600-2320 \AA	Vol. XV and XVI, No. 3, 53, 1968 Journal of M.S. Univ. of Baroda
44	B. S. Shah and E. Mathai	(i) Vapour growth of 'Te' single crystals (ii) Microhardness studies on 'Te'	Vol. 38, Current Science, Feb. '69. Current Science, Vol. 38, February, 1969.

Sr. No.	Name/s	Title	Name of the publisher
45	R. K. Shukla	Cellular structure in Tin single crystals.	Ind. J. of Pure and Appl. Phys., Vol. 6, No. 5, 1969.
46	C. M. Saraf	Etching of Barite	Mineralogical Magazine (Lond.), Vol. 36, No. 281, 1968
47	H. S. Desai and L. H. H. Prasad	The study of transient forced convection Laminar film condensation upon a horizontal plate	Jour. of Maharaja Sayajirao University of Baroda, Vol. XV, and XVI, No. 3, 1966-67.
48	Ashok M. Parikh	Further results in Fractional Factorial Designs of Type 2m	J.M.S.U.B., Vol. XIII and XIV, No. 3, 1968
49	N. M. Bhatt and P. H. Dave	Change in Normal Correlation due to Exponential Transformation of one and Polynomial Transformation of the other standard Normal Variate	J.S.M.U.B., Vol. XIII and XIV, No. 3, 1968
50	S. G. Palkar and N. M. Bhatt	(i) An Empirical classificatory study (ii) Use of an Extra Aptitude Test Score in Prediction	-do- -do-
51	A. G. Phatak and N. M. Bhatt	Censored Sampling in Curtailed Sampling Plans by Attributes	Journal of Mathematics Sciences, Vol. III-2, July, 1968.
52	A. G. Phatak	(i) Misclassified Data from Curtailed Sampling Plans (ii) Censored Sampling in Curtailed Sampling Plans	Technometrics, August, 1968. Technometrics, November, 1968
53	I. V. Bhanot and R. C. Patel	Health and Ailments	Published by Statistics Department, October, 1968.
54	G. K. Karnawar	Studies on the biology of the Khapra Beetle <i>Trogoderma granarium</i> everts under laboratory conditions, with emphasis on diapause	J. Anim. Morphol. Physiol., Vol. 14, No. 2, pp. 205-215, 1967.

Sr. No.	Name/s	Title	Name of the publisher
55	T. M. John and J. C. George	Cyclic histochemical changes in the hypo-thalamopituitary neurosecretory system of the migratory wagtails <i>motacilla alba</i> and <i>motacilla flava</i>	J. Anim. Morph. Physiol., Vol. 14, No. 2, pp. 216-222, 1967.
56	F. D. Bokdawala and J. C. George	A quantitative study of fat, glycogen, lipase and succinic dehydrogenase in fish muscle	J. Anim. Morph. Physiol., Vol. 14, No. 2, pp. 223-230, 1967.
57	F. D. Bokdawala	A histochemical study of fat in the red and white fibres of fish skeletal muscle	J. Anim. Morph. Physiol., Vol. 14, No. 2, pp. 231-241, 1967.
58	R. V. Shah and T. V. Chakko	(i) Histochemical localisation of glycogen and phosphorylase in the normal and regenerating tail of the house lizard, <i>Hemidactylus flaviviridis</i> (ii) Histological Observations on the normal and regenerating tail of the house lizard <i>Hemidactylus flaviviridis</i> .	J. Anim. Morph. Physiol., Vol. 14, No. 2, pp. 257-264, 1967. J. Anim. Morph. Physiol., Vol. 15, Nos. 1 & 2, pp. 26-30, 1968.
59	K. S. S. Nair and G. K. Karnawar	(i) A cytological study of changes in the fat body of <i>Trogoderma granarium</i> during metamorphosis, with special reference to the prolecinaceous globules. (ii) Observations on the cytology and cytochemistry of the fat body of normal and diapausing larvae of <i>Trogoderma granarium</i> everts (Col. Dermestidae) (iii) Changes in body weight, fat, glycogen, and protein during diapause of <i>Trogoderma granarium</i>	Insect Physiol., Vol. 14, pp. 1651-1659, 1968. J. Anim. Morph. Physiol., Vol. 15, Nos. 1 & 2, pp. 153-161, 1968. J. Insect. Physiol., Vol. 15, pp. 95-103, 1969

Sr. No.	Name/s	Title	Name of the publisher
60	N. J. Chinoy and J. C. George	Effect of electrical stimulation and added Na and K ions on the cholinesterase activity in avian pectoralis muscle.	J. Anim. Morph. Physiol., Vol. 15, Nos. 1 & 2, pp. 95-104, 1968.
61	P. M. Ambadkar	Post-natal levels of lipids, lipase and succinic dehydrogenase in rat testis.	J. Anim. Morph. Physiol., Vol. 15, Nos. 1 & 2, pp. 153-161, 1968.

(ii) Books :

Sr. No.	Author	Title	Name of the publisher
(1)	R. Rajalakshmi	Applied Nutrition	R. Rajalakshmi
✓	(b) Participation in Conferences, Seminars, Symposiums etc. :		
	(i) Seventeen teachers of the Faculty were deputed to attend various Conferences, Seminars, Summer Schools, Symposiums in India.		
	(ii) Dr. (Smt.) R. Rajalakshmi attended the meeting of the WHO experts Committee on 'The Bio-chemistry of Mental Disorders' at Geneva from 28th October to 2nd November, 1968. She also visited the laboratories in Israel, U.K., West Germany and Czechoslovakia and delivered a series of lectures.		
	(iii) Professors S. M. Sethana presided over the Chemistry Section of the 56th Session of the Indian Science Congress held at Bombay in the first week of January, 1969.		

(c) Research :

The following teachers carried out research in the following fields of study shown against their names from the facilities available to them in their respective departments.

Name of the Department and Teacher	Subject of research
<i>Bio-chemistry</i>	
Professor C. V. Ramakrishnan	Nutrition and Brain Bio-chemistry.
Dr. R. Rajalakshmi	(i) Nutrition and Brain Bio-chemistry. (ii) Studies on Pregnancy and Lactation.

*Name of the Department
and Teacher*

Subject of research

Dr. S. K. Srivastava	(i) NAD metabolism in normal and tumour tissues of plants. (ii) Amino acid metabolism in normal and tumour tissues of plants. (iii) Metabolic studies in moss cells grown in vitro.
Dr. H. R. Chokshi	Studies on Bones cultivated in vitro.
Dr. L. J. Parekh	Metabolic studies in citrus fruits.
<i>Botany</i>	
Professor C. H. Pathak	Econology, Physiology and Cytogenetics.
Dr. A. R. Mehta	Morphogenesis, Physiology and Cytology.
Shri L. K. Gaekwad	Palynology
Shri Y. S. Deshmukh	Embryology and Floral Anatomy.
Shri S. N. Padate Shri R. P. Bhatt Shri S. J. Bedi	Floristics and Taxonomy.
Shri R. G. Vaidya	Hydrobiology.
<i>Geology</i>	
Professor S. S. Merh	(i) Geology of Kumaon Himalayas (ii) Pre-cambrian Rocks of Gujarat.
Shri S. D. Desai	(i) Study of the graphite deposits of Gujarat and their economic importance. (ii) Study of the fluorite deposits of Ambadongar.
Dr. N. M. Vashi	The geological studies of the area along Kosi river between Khairna and Almora, Dist. Almora, U.P.
Dr. P. J. Desai	Mineralogy and the genetic studies of the fluorite deposits at Ambadongar (Gujarat State) in progress.
Shri S. J. Desai	The chemical studies of the rocks of the area around Majkhali, Dist. Almora, U.P.
Shri G. T. Malpathak	Geological investigations of the rocks of the Delhi system of Amba Mata Area, Dist. Banaskantha (Gujarat).

*Name of the Department
and Teacher*

Subject of research

Shri S. G. Patel	The geological studies of the area around Sagtala, Dist. Panchamahals (Gujarat).
Shri D. T. Brahmbhatt	Ultramatic rocks in Gujarat and S. Rajasthan.
<i>Mathematics</i>	
Shri I. H. Sheth	Hyponormal Operators in Hilbert Space.
Shri O. P. Goyal	On the Absolute Convergence of a Fourier Series.
<i>Microbiology</i>	
Professor V. V. Modi	(i) Biosynthesis of fatty acids and carotenoids in Micro-organism. (ii) Hydrocarbon utilization of microbes. (iii) The preservation of fruits. (iv) Biogeneses of Vit. B ₂ and aflatoxin.
Dr. V. K. Shah	(i) Induction and repression of enzymes in molds. (ii) Studies on Cell Walls of dermatophytes.
<i>Statistics</i>	
Professor (Smt.) I. V. Bhanot and Shri R. C. Patel	(i) Statistical summaries of Medical Inspection Reports. (ii) Demographic Characteristics of Sterilized Spouses of 1966 in Baroda District. (iii) Impact of Certain Demographic Characteristics in couple Fertility. (iv) An experience of interviewing sterilized Spouses.
Professor (Smt.) I. V. Bhanot and Dr. M. M. Gandotra	(i) Baroda Fertility Study (ii) Present State and Status of Demographic Research in India. (iii) Population Problem in India. (iv) Age-wise Targets for Sterilization.
<i>Zoology</i>	
Professor R. V. Shah	(i) Animal Physiology. (ii) Reproductive Physiology. (iii) Development Physiology. (iv) Comparative Anatomy.
Dr. R. M. Naik	(i) Anatomy, Physiology and Econology of birds. (ii) Animal behaviour.

5. Faculty Union Activities

(1) An amount of Rs. 1,001/- from the Association's budget was donated towards the South Gujarat Flood Relief Fund. The Faculty students also generously donated towards this fund.

6. Museum, Laboratory, Studios, Workshop etc.

The museums in the Botany, Geography, Geology and Zoology Departments were enriched by addition of specimens and other articles; considerable progress was made in the work of preparing a good herbarium in the Botany Department. The Central workshop did very useful work during the year in the preparation of research and other apparatus, repairing of instruments and of training Post-graduate students of the Physics Department in workshop-practice etc.

Substantial additions of scientific apparatus and equipment were made during the year to the laboratories of the Faculty. The following table gives the cost of equipments in the different laboratories added during the year 1968-69 and the total cost as on 31-3-1969 :

Laboratory	Cost of equip- ment as on 1-4-1968	Cost of equip- ment etc. written off during the year	Cost of equip- ment etc. added during the year	Cost of equip- ment as on 31-3-1969
	Rs.	Rs.	Rs.	Rs.
Bio-chemistry	4,57,291-00	—	1,12,047-10	5,69,338-10
Botany	4,31,675-52	—	7,500-00	4,39,175-52
Chemistry	6,02,573-46	—	13,741-70	6,16,315-16
Geography	2,20,011-13	—	2,130-80	2,22,141-93
Geology	5,26,736-00	—	9,775-36	5,36,511-36
Microbiology	1,33,000-00	—	33,000-00	1,66,000-00
Physics	6,62,140-09	—	41,426-72	7,03,566-81
Workshop	67,231-57	—	598-00	67,829-57
Statistics	1,00,211-00	—	10,129-00	1,10,340-00
Zoology	3,77,355-17	—	4,482-90	3,81,838-07
Total	35,78,224-94	—	2,34,831-58	38,13,056-52

7. Important Events

Shri Hitendra Desai, Chief Minister of the Gujarat State laid the Foundation Stone for the new building of the Microbiology Department on 3rd August, 1968 and also visited various Departments of the Faculty.

CHAPTER X—FACULTY OF EDUCATION AND PSYCHOLOGY

1. Review of Progress of the Reforms

The two innovations introduced in the Faculty in the year 1967, viz., semester-wise organization of courses and adoption of internal assessment of students' work in all the courses through continuous and comprehensive evaluation, showed satisfactory results during the year of report. The semester system, however, could be introduced only in the Departments of Education and Educational Administration, as the Department of Psychology is linked up in patterns of courses and examinations with the Faculty of Arts.

The working of the two reforms, however, revealed certain weaknesses such as the following: (i) Certain courses are overlapping and hence need coordination; (ii) Certain courses need to be dropped giving place to some new ones. A course like 'Sociology of Education,' for example, needs to be introduced; (iii) Students feel the burden of too many tests and hence the number of tests during one semester needs to be reduced; (iv) It is observed that students depend upon class-notes more than library books. Some measures have to be adopted to encourage students to read library books for the courses they offer; (v) Some fresh thinking is also needed regarding the credit-points and the entire system of grades also needs to be reviewed. These short-comings are being looked into and remedial measures are being planned. The new schemes, however, have been found, by and large, to be working pretty well; and the Faculty's experience of two years shows that both the staff and the students are on the whole happy about it, and have endorsed the break-through in the traditional pattern of curriculum and examination. Gradually there is developing an objective attitude to both these reforms so far as the staff and the students are concerned.

2. Some New Experiments

In some of the courses taught in the Department of Educational Administration and the Centre for Research and Training in Secondary Education for Rural Areas, a variation of the seminar approach to teaching was tried out, on an experimental basis, during the year. This was on the pattern of teaching in the British Universities.

In courses on "Democratic School Supervision" and 'Personnel Selection and Management in Education,' taught in the Faculty at the post-graduate level, teaching took the form of about five or six initial 'key lectures' by the teacher, and the entire course was later on covered through assignments and discussion paper prepared by students under the guidance of teachers. Each student was required to prepare a paper, present it before the Seminar Group and initiate

discussion on it. The student's work in these courses was graded besides his performance in the comprehensive written test given at the end of the Semester on the basis of the quality of his paper, his skill in presenting the paper and the quality of his participation in the discussion. This experiment met with some initial difficulty, because students had very little experience of preparing long discussion papers, and of initiating as well as participating in discussions. But it did succeed, to a large extent, in stimulating student effort in learning. Students have broadly welcomed this change in their role as active participants in learning in place of the old one where they were merely passive receivers.

3. Courses of Studies

(a) There is a provision for the following courses:

- (i) B.A., M.A., Ph.D. : Psychology
- (ii) B.Ed., M.Ed., Ph.D. : Education and Educational Administration.
- (iii) Post-graduate Diploma : (i) Educational Administration.
(ii) Guidance and Counselling.
- (iv) Under-graduate Diplomas : (i) Education.
(ii) Early Child Education.

(b) A new course in 'Personnel Selection and Management in Education' was introduced at the M.Ed. level.

(c) In the Second Year B.A. the minor papers in Education and Educational Psychology were revised and approved by the Board of Studies in Education.

4. Number of Students

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

	Men	Women	Total
(a) Under-graduate Diplomas:			
(i) Dip. in Education	14	38	52
(ii) Dip. in Early Child Education	—	22	22
Total	14	60	74
(b) Degrees			
(i) B.Ed.	79	81	160
(ii) S.Y.B.A. (Psy.)	3	43	46
(iii) T.Y.B.A. (Psy.)	7	37	44
Total	89	161	250

	Men	Women	Total
(c) Post-Graduate Degrees:			
(i) Jr. M.Ed. (By papers and Dissertations)	32	5	37
(ii) Sr. M.Ed.	11	3	14
(iii) M.Ed. (Full time)	9	8	17
(iv) Jr. M.A. (Psy.)	1	8	9
(v) Sr. M.A. (Psy.)	3	7	10
Total:	56	31	87
(d) Ph.D.	5	5	10
Grand Total:	164	257	421

5. Staff

During the year, the staff of the Faculty consisted of 3 Professors, 5 Readers, 16 Lecturers, 6 Assistant Lecturers, 2 Research Fellows, 5 Junior Research Fellows, 2 Technical Assistants, 19 Class III and 10 class IV servants. In addition to this, there is a Co-ordinator in charge of the Department of Extension Services.

The new appointments consisted of a Professor of Education and 2 temporary Assistant Lecturers, and one part-time Hon. Lecturer.

Among those who left were Dean Professor M. S. Patel who retired in August, 1968, Professor L. J. Bhatt, Head, Department of Psychology who also retired in the same month, and Dean Professor T. P. Lele who retired on March 20, 1969.

6. Professional Growth of the Staff

A. Published Articles or Papers:

Author	Title	Where published
Professor D. M. Desai	(i) Redevelopment of Lesson Planning in College of Education	'Education and Psychology Review', Baroda, Vol. 8, No. 2, April, 1968
	(ii) Reappraisal of Syllabi in Teacher Education	'Teacher Education', New Delhi, Vol. II, No. 4, April, 1968
	(iii) Baroda's Efforts in Teacher Education	'Teacher Education', New Delhi, Vol. III, No. 2, January, 1969

<i>Author</i>	<i>Title</i>	<i>Where published</i>
	(iv) Role of Government and Private Agencies in Administration of Higher Education in India	'Education Quarterly', October, 1968
Dr. M. A. Quraishi	Historical Survey of Language Medium of Instruction Controversy in Gujarat	'Progress of Education', Vol. XLII, No. 12, July, 1968
Dr. B. P. Lulla	(i) Concept of Social Studies	Journal of Regional College of Education, Bhopal, January, 1969
	(ii) Research and Experimentation and School Curriculum	'N. I. E. Journal', January, 1969
	(iii) Research Needs in Educational Administration	'Research Needs in Education', Department of Education, University of Kurukshetra
Shri I. J. Das	India's Cultural and Colonial Empire (Greater India)	'Teaching Material for Social Studies', Department of Extension Services, Faculty of Education and Psychology, Baroda, October, 1968
Dr. G. B. Shah	Examination Reform in Colleges of Education—Baroda Tries New Experiment	'N. I. E. Journal', New Delhi, October, 1968
Shri P. K. Dongare	Student Teaching in West Germany	'Education and Psychology Review', Baroda, April, 1968
Dr. (Snt.) M. S. Warty	(i) Verbal Attitudes and Overt Acts	'Indian Journal of Applied Psychology', Madras, January, 1969

<i>Author</i>	<i>Title</i>	<i>Where published</i>
	(ii) Construction of a Scale to Measure Attitudes towards Old People	'Education and Psychology Review', Baroda, Vol. VIII, No. 4, October, 1968
Dr. N. S. Pathak	(i) Reportory Grid Testing Technique Applied to the Study of Thought Disordered Schizophrenics	Education and Psychology Review, Vol. 8, No. 3, July, 1968
	(ii) "Q" Sort Technique Applied to the Problem of Vocational Choice	'Advances in Education', CASE, Baroda.
	(iii) Concept Attainment as a Function of Positive Instances, Negative Instances and Associative Strengths of Positive Instances	'Education and Psychology Review', October, 1968
	(iv) Some Methodological Problems in the Study of Retention	'Education and Psychology Review', Baroda, 1969
Dr. S. Bhattacharya	(i) Astro Psychological Approach to Personality study	Education and Psychology Review, Vol. 8, No. 3, 1969
	(ii) Development of New Type of Textile and Auditory Projective Technique	'Journal of Psychological Researches', No. 2, 1968
	(iii) Wanted a Shake up in the Teacher Education Programme	'Teacher Education', New Delhi, October, 1968
	(iv) Motivational Process—An Exploratory Study	'Applied Psychology', January, 1969
<i>B. Published Books:</i>		
Professor D. M. Desai	(i) School Principal and Curriculum Improvement	'Centre of Research and Training in Secondary Education', Faculty of Education and Psychology, Baroda, March, 1969

Author	Title	Where published
	(ii) Priority of Research in Inspection and Supervision of Instruction	Department of Educational Administration, Faculty of Education and Psychology, Baroda, March, 1969
Dr. G. B. Shah	'अभिक्रमिit अध्ययन' (Programmed Learning)	Bal Govind Kuber-das and Co., Ahmedabad, 1969
Dr. (Smt.) M. S. Warty	An Introduction to Psychology	Acharya Book Depot, Baroda, 1968
Dr. S. Bhattacharya	(i) Foundations of Education and Educational Research	Acharya Book Depot, Baroda, October, 1968
	(ii) New Horizons in Psychological Research	Book Land, Calcutta, March, 1969
Dr. M. V. Shreedhar (with Kumari Usha Patel)	An Auto-Instructional Course in Hindi	Centre of Advanced Study in Education, Baroda, 1968
<i>C. Papers:</i>		
Professor D. M. Desai	(i) Manpower Planning in India	Institute of Education, Bristol University, U. K. May, 1968
	(ii) Role of Universities in Rural Community Development	Institute of Education, Bristol University, U. K. May 13, 1968
	(iii) Impact of British and American Influences on Development of Secondary Education in India	Institute of Education, Bristol University, U. K. June 6, 1968
	(iv) School Supervision for Curriculum Enrichment	NCERT Seminar on School Supervision of Principals of Public Schools in India, held at Panjim, November, 15-20, 1968

Author	Title	Where published
	(v) What Role can Universities Play in Adult Education	Seminar on 'Adult Education', organized by the Adult Education Association of the Inter-University Board of India and Ceylon at Vidyanagar, November 23-26, 1968
Dr. (Smt.) M. S. Warty	(i) Adjustment of the Adolescent Students in Relation to Their Self Concept	Conference of the Indian Association of Applied Psychology, Mysore, 28th December, 1968
	(ii) A study of Identifications—its Types and the Effect of Social Class on it	56th Session of Indian Science Congress Association, Powai, Bombay, 6th January, 1969
Dr. S. Bhattacharya	(i) A Psychological Study of Students' Unrest	Indian Science Congress, January, 1969
	(ii) Programmed Learning in Emerging Nations	All India Seminar on Programmed Learning, New Delhi, January, 1969
Dr. M. V. Shreedhar	(i) Educational Technology and Language Programming	N.C.E.R.T. Seminar, Delhi, 22nd December, 1968 to 4th January, 1969
	(ii) Perspectives in Language Programming	National Seminar on Programmed Learning organised by Delhi University from 28th February to 3rd March, 1969
Kumari Usha Patel	Declensions of Adjectives	Workshop on Programmed Learning, NCERT, Delhi, 22nd December, 1968

Author	Title	Where published
<i>D. Talks:</i>		
Professor D. M. Desai	Problems of Primary Education in India (a series of six talks to Post-graduate students)	Gujarat Vidyapeeth, Ahmedabad, 10, 11, 12, February, 1969
Shri G. B. Shah	Teacher as an Agent of Change	College of Education, Aliabada (Saurashtra University), 3rd February, 1969
Dr. N. S. Pathak	Supervisory Functions and Job Satisfaction	Ram Institute of Industrial Research, New Delhi, 1968

E. Participation in Inservice Programme as a Resource Personnel:

Staff Member	Name of the Seminar/Workshop/Course	Place
Professor D. M. Desai	(i) Seminar on 'Evaluation' of Moderators and Papersetters of the Gujarat S. S. C. Examination Board	Baroda, September, 7-14, 1968
	(ii) Seminar on 'School Supervision' of Principles of Public Schools of India	Panjim (Goa), November 15-20, 1968
Dr. B. P. Lulla	(i) Training of Extension Education Workers	Extension Education, Institute, Anand, October, 1968
	(ii) Summer School in Education	Regional College of Education, Bhopal, May, 1968
Dr. G. B. Shah	(i) Seminar on Experimental Projects	Arranged by Department of Field Services at Mysore, 8-14 December, 1968
	(ii) Seminar on Educational Research	Arranged by NCERT at Vallabh Vidyanagar

Author	Title	Where published
<i>(B) Participation in Inservice Programme as Participant :</i>		
Dr. M. A. Quraishi	Language Controversy Medium of Instruction	Organized by NCE-RT at Shantiniketan, 6-12 March, 1969
Shri J. J. Gajjar	Adjustment Problems of Foreign Students in India	Ministry of Education, Delhi, 24 and 25th March, 1969

F. Research Work:

(A) Completed :

Staff Member	Title of the Research	Date of Completion and published/unpublished
Professor D. M. Desai	Study of the Concept of Community in School International Perspective and in the context of Indian Situation	March, 1969 (Unpublished)
Dr. G. B. Shah	Comparison of Intellectual Ability —Indian Vs. American Children on Shah's Non-verbal Group Test of Intelligence" (University of Michigan Ann Arbor)	"The Journal of Social Psychology" (American) accepted for publication
Smt. S. J. Mehta	A Collection of Vocabulary of the six year old Gujarati Children	Completed on 25-1-1969
Shri J. J. Gajjar	Guidance Needs of High School Students.	January, 1969 Student Counselling Centre Pub. No. 15
Kumari S. L. Patel	Local Norms of Chatterji's Non-language Preference Record.	March, 1969, Counselling Centre Publication
Dr. (Smt.) M. S. Warty	Adjustment of the Adolescent Pupils and its Relation to their school achievement	Completed 9th March, 1969 (Unpublished)
Dr. S. Bhattacharya	Dimensions of Interest	December, 1968. Published in New Horizons in Psychological Research, August, 1968

Staff member	Title of the Research	Date of completion and published/unpublished
Dr. M. V. Shreedhar	(i) Contrastive Phonology of Gujarati-English	August, 1968
	(ii) Compulsory Grammatical Categories of English-Gujarati	October, 1968
(B) In Progress:		
Professor D. M. Desai	Recruitment Policy in Rural High Schools.	Probable Date of Completion
Dr. B. P. Lulla	Curriculum Experiment in Social Studies.	1971
Dr. G. R. Sudame	Effect of Library Use on Academic Achievement	1970
Dr. G. B. Shah	Scientific Aptitude Test (Standardization)	—
Shri P. K. Dongre and Smt. S. J. Mehta	Role of Aural-oral approach in the Teaching of English as a Foreign Language.	1969
Smt. S. J. Mehta	Match-stick Drawing—an Effective Technique in the Teaching of English	1969
Kumari S. L. Patel	Preparation of D.A.T. Norms (Abstract Reasoning and Numerical Ability) for Preparatory Students of M. S. University, Baroda	1969
Shri M. M. Chokshi	Gujarati Gazal	1971
Dr. (Smt.) M. S. Warty	Measurement of Family size Norms	October, 1969
Dr. N. S. Pathak	(i) Development of a scale to measure Dependence Proneness	July, 1969
	(ii) Development of E.P.P.S. Norms on College Students	July, 1969
Dr. S. Bhattacharya	(i) Effect of Music on Personality Change	March, 1970

Staff Member	Title of the Research	Date of completion and published/unpublished
	(ii) Dimensions of Love	March, 1971
	(iii) Maturation as Process—An Exploration	December, 1970
Dr. M. V. Sreedhar	(i) Compulsory Morphological Categories of English Gujarati	—
	(ii) A Programmed Course in Remedial English	—

7. Centre of Advanced Study in Education

(1) The Centre of Advanced Study in Education was established in the Faculty of Education and Psychology under a U.G.C. Scheme in July, 1964. It is the only institution of its kind in education in the country. The main function of the Centre is to promote post-graduate teaching and research of high quality in the field of education. With the establishment of the CASE, significant changes and improvements have occurred in the teaching and the research programme of the Faculty. As reported last year, the Centre is working through four different Units viz. (i) Research Methodology Unit; (ii) Psychometrics and Evaluation Unit; (iii) Curriculum Unit; and (iv) Language Learning Unit.

(2) Publications :

The manuscripts for the following publications were prepared at the Centre during the year under report :

- (i) Dr. A. S. Patel, Editor Advances in Education.
- (ii) Dr. B. P. Lulla Problems of Curriculum Administration and Text-book selection in different States of India—A Seminar Report.
- (iii) Shri M. M. Chauhan A Diagnostic and Remedial Course in Hindi (printed).

(3) Seminars and Workshops :

The following four Seminars and one Workshop were conducted during the year :

- (i) Seminar on “ Formation of Diagnostic Programmes for meeting the problem of Stagnation in Education on 13th and 14th July, 1968.
- (ii) Seminar on “ School involvement in remedial programmes for fighting the problem of Stagnation ” on 23rd March, 1969.

- (iii) From 4th to 7th September, 1968 an All India Seminar on "The Problem of Curriculum Administration and Text-book Selection in different States of India" was organised at the Centre.
- (iv) Seminar on "Programmed Instruction and Language Learning" was held from 16th to 20th September, 1968 at the Centre.
- (v) Three workshops were organised by the CASE in the months of September, October and November, 1968 for the Project of Analysis and Evaluation of M.A./M.Sc. question papers.

(4) *Centres' Colloquium :*

List of Colloquium (April, 1968 to March, 1969) :

Speaker	Topic	Date
Dr. M. A. Quraishi	Experiences in the Conference on Teacher Education at Bhopal	4-7-1968
Professor A. S. Patel	Research Design	18-7-1968
Professor D. M. Desai	Recent Trends and Issues in Teacher Education in the U.K.	1-8-1968
Shri K. C. Bhatt	Teacher Education Programme in West-Germany	29-8-1968
Dr. G. B. Shah	Teacher Education in the U.S.A.	28-11-1968
Dr. J. J. Mody	Mechanism of Language	30-1-1969

(5) *Foreign Assistance*

(i) Professor D. M. Desai, Head of the Educational Administration Department, was deputed to U.K. in April, 1968. He visited several colleges of education, university departments and research centres in education, and studied the organisation and working of Department of Science and Education, the U.G.C., the National Foundation of Educational Research, the Scottish Council of Educational Research and the Godfrey Thompson Centre of Educational Research in U.K. This visit was sponsored under the U.G.C.—British Council Collaboration Exchange Scheme operating in the Centre of Advanced Study in Education.

(ii) Shri D. R. Darji, Senior Research Fellow in the Curriculum Unit of the CASE is deputed to U.K. under the above scheme. He will visit the University Departments of Education at Bristol, London and other Universities in the U.K.

(iii) Under the Scheme of Colombo Plan and Asia Foundation, the Centre received equipment for research and training in the field of education and educational research.

8. **Centre for Research and Training in Secondary Education for Rural Areas (Baroda-Michigan Project)**

The Centre entered the second year of its working. It could start its full-fledged programme of training leadership in rural community only from July, 1968. This year 13 full-time and 10 part-time Junior students and 3 part-time Senior Students were enrolled under the M.Ed. Degree Programme of the University, with specialization in Rural Community Education.

Several sessions of the staff and consultants were held to plan out practicum in the rural setting and on the Campus. Orientation in the skills of using A. V. Aids for stimulating active learning, public speaking, group discussion, curriculum planning etc. was done on the campus. But these skills were again tried out by the trainees in the field situations. For the field training four villages—Itola, Por, Vernama and Chhani—of the Baroda Taluka were selected. The students regularly visited the village and the school twice a week and studied the social, economic and educational aspects of village life and its problem. The village school and leadership role to be played by the teacher in imparting life-oriented education was in the focus during the field training. They put in 10 hours of field work every week. As a result of these field experiences and practical work, the students could develop confidence and the art of using education in new perspective. The training programme being inter-disciplinary in nature, assistance was obtained of some staff members of the Faculties of Arts, Social Work and Shri V. T. Krishnamachari Institute of Rural Development.

The Centre worked on developing research tools, studying the impact of such training on the M.Ed. students and determining the extent to which this training helps them to be better teachers for rural areas.

Dr. E. E. Sullivan from the University of Michigan, Ann Arbor, U.S.A. visited the Centre as a Consultant from May to July, 1968. From December, 1968 two Visiting Consultants—Mr. Bennet and Mr. Sebaly—helped in organising field-visits, programme of skill training and further strengthening the curriculum for training in leadership at the village level. They carried on concurrent research programme for evaluating the effectiveness of the training imparted at the Centre.

9. **Counselling, Guidance and Inservice Teacher Education Services**

(1) *University Students Counselling Centre:*

The Centre continued to render counselling and guidance services to the University students as before, but with truncated staff and resources, its task became difficult. Personal counselling could not be done to more than three students.

The Student Advisory Bureau for Studies in India and Abroad (SAB) attached to the Centre had visits from 1352 students and they were supplied with necessary educational information. Nearly 334 students from outside have been supplied with information needed by them through correspondence.

It should be noted that the greatest demand made on the personnel of the Centre was for attesting copies of certificates. During the year under report, there were as many as 3169 such cases.

The Centre has also a Unit on foreign student advisement. There were 72 students of non-Indian origin studying in the University. Besides these, there were about 700 overseas students. The Unit looks after their reception and orientation and helps them in adjusting to life on the Campus.

Two research studies one on 'Guidance Needs of High School Students' and the other on 'Local Norms of Chatterjee's Non-Language Preference Record' were published during the year. The work on 'Preparation of D.A.T. Norms of Preparatory Units' is completed and will go to the press shortly for printing. Two projects are under way, viz. 'Commerce' and 'Study of Edwards Personal Preference Schedule on University Students.'

(2) Department of Extension Services:

The Department caters to the needs of about 400 Secondary Schools of the four districts of Gujarat viz. Baroda, Panchmahals, Bulsar and Surat. The Department organises workshops and seminars for the inservice education of teachers. During year under report 7 seminars were organised wherein about 500 teachers and Principals participated. The Department also actively participated in the Baroda City and Baroda District Science Fair organised in Baroda and in Gujarat State Science Fair organised at Billimora. The Department also offered a number of services like Library Service, Audio-Visual Aids Services, Exhibitions, Consultation and Guidance Services etc.

Twelve Experimental Projects in Schools guided by this Department received financial and academic assistance from the Department of Field Services, N.C.E.R.T., New Delhi. A number of papers and essays were received for the Seminar Readings Programme and the best 10 selected essays were sent to Ahmedabad for the State Level Competition. From these essays 2 essays were selected for the All India level competition.

About 15 schools borrowed films and film-strips from this department.

10. Faculty Union Activities

Students of the Faculty participated in almost all the events of the 18th Inter-Faculty Youth Festival and won prizes in some of them. Two student representatives of the Faculty also represented Faculty at the All Gujarat Elocution Trophy Debate.

11. Post-Graduate Library

For the benefit of the Master's and Doctoral students in Education a separate post-graduate library attached to the CASE is maintained in a separate spacious well equipped library Hall. This is specifically a reference library. On an average about 40 students and staff members a day visit the library for reading and study purposes. The total volumes in this library increased from 4,746 to around 6000 in the current year. It has utilised Rs. 10,000 of the recurring grant and Rs. 12,000 of the non-recurring grant during the year. This comes to utilization of 25% of the total grant for libraries allocated to the Faculty. The library is subscribing to 31 foreign Journals of high educational standards. About 13 Indian Journals in education are also subscribed for by the library.

12. Museum, Laboratory etc.

The Faculty has a fully equipped museum, which contains all modern teaching aids for the use of the student-teachers. The equipment designed and made as 'Projects' by students under training are kept here for use.

Similarly the Faculty also maintains a laboratory with equipment for trying out experiments to be taught to pupils in the class. The Psychological laboratory is well equipped for conducting tests etc. by students.

The Unit of Audio-Visual Education organised a number of film-shows for the staff and students of the Faculty. The mobile units of the United States Information Services, Bombay and the British Information Services, Bombay, screened about 12 documentary films at the Faculty.

The Unit also helped the Department of Extension Services and CASE arranged educational exhibitions, both at the Faculty and in the local schools. It organised the training programme in manipulation of audio-visual aids for the students of the B.Ed. and Dip. Ed. classes and helped the English Teachers Training Course for the primary teachers of Baroda conducted in the Faculty.

13. Publications

The Faculty continued to publish the following journals :—

- (i) Education and Psychology Review (Quarterly);
- (ii) Social Studies Teacher (Quarterly);
- (iii) Advances in Education (Quarterly).

14. Distinguished Visitors

During the year under report, the following distinguished educationists visited the Faculty:

<i>Name of the Visitor</i>	<i>Date of Visit</i>
(1) Dr. Amrik Singh, Secretary, Inter-University Board of India and Ceylon, Delhi.	28-11-1968
(2) Professor R. K. Kapoor, Vice-Chancellor, Sambalpur University, Sambalpur.	29-11-1968
(3) Dr. Koshy, Director, Department of Adult Education, National Council of Educational Research and Training, New Delhi.	30-11-1968

CHAPTER X (A)—UNIVERSITY EXPERIMENTAL SCHOOL

1. Courses of Study

The school continues to follow the syllabus and courses prescribed by the Department of Education, Government of Gujarat and those of the S.S.C. Examination Board of the Gujarat State.

The school provides for craft in paper work in class IV; and that of wood-work and needle work, for classes V, VI and VII. Gardening is a Hobby for class VIII; classes IX and X select any of Art, Music, Science, Wood-work, Photography and Cooking as their Hobby.

2. Number of Students

<i>Classes</i>	<i>Boys</i>	<i>Girls</i>	<i>Total</i>
Primary : I to VII	168	123	291
Secondary : VIII to XI	103	80	183
Total	271	203	474

3. Staff

	<i>Graduate trained teachers</i>	<i>Under-graduate trained teachers</i>	<i>Total</i>
(1) Primary Section	4	4	8
(2) Secondary Section	6	—	6
(3) Specialized Teachers	3	2	5
(4) Office	One Senior Clerk, Two Junior Clerks and One Laboratory Assistant		
(5) Class IV Servants	Five for Secondary and Two for Primary Section		

4. Library

140 new books, worth Rs. 500 were added during the year. The library is being reorganised at present and put on a sound and systematic basis.

5. School Laboratory

The particulars are as follows :

<i>Item</i>	<i>Cost of equip- ment etc. as on 31-3-1968 Rs.</i>	<i>Cost of equip- ment etc. written off during the year Rs.</i>	<i>Cost of equip- ment etc. added during the year Rs.</i>	<i>Cost of equip- ment etc. as on 31-3-1969 Rs.</i>
Laboratory	13,396-49	—	411-41	13,807-90

6. Experiments and Activities

(1) Eight project studies—four in Social Studies, one each in Gujarati and Science and two in Mathematics—were undertaken by the teachers of the School.

(2) A detailed questionnaire, "Parents about this school" was prepared and distributed to the parents. The suggestions expressed by the parents for the working and teaching in the school were considered and some of them were implemented.

(3) Five seminars were arranged in the School in which eight teachers participated.

(4) Two debates in each of the three languages—English, Gujarati and Hindi were held during the year.

(5) Students of the school appeared at and passed the following extra examinations :

<i>Examination</i>	<i>Number Appeared</i>	<i>Number Passed</i>
(i) Elementary Drawing Grade Examination	12	9
(ii) Intermediate Drawing Grade Examination	10	8
(iii) General Knowledge Pre-Senior Examination	55	30
(iv) Shista Vachan Examination	47	42
(v) Various Sanskrit Examinations	124	117

(6) Chi Muralidhar Tekchandani and Chi Jagdish Shah stood second and fourth in India respectively at the U.N.O. Information Test.

(7) The result for the S.S.C. Examination March 1968 was 97% and for October, 1968 was 100%.

(8) Three prizes were won by the students at the Shanker's Child Art Competitions and first and third prizes at the District Central Sports.

(9) Chi Kandarp Shah won the Nehru Award organised by the Soviet Land.

(10) Chi Parul Hathi gave a talk about her visit to Artek (U.S.S.R.) and the same was relayed by the A.I.R.

(11) Paintings and essays were exchanged with Switzerland through the Indian National Commission.

(12) Fifteen pupils were sent to participate in the Cultural Programme organised by the Central School Integration Committee at Delhi.

(13) The school won the first prize in Group Dance Competition at the U.S.O. Conference. Students of the School also won Merit Certificates in Elocution, Fancy Dress and Group Song.

(14) Students presented a play on A.I.R. and an entertainment programme at the All India Conference of Pharmacologists.

CHAPTER XI—FACULTY OF COMMERCE

1. Courses of Study

There is provision for the following courses:

- (1) Ph.D.: Banking, Business Finance, Business Administration, Commerce, Co-operation and Economics.
- (2) M.Com.: Principles of Management, Human Relations in Management, Production Management, Marketing, Financial Management, Management Accounting, Managerial Economics, Statistical Methods, International Trade, Industry and Labour with special reference to India, Advanced Accountancy and Accounting Theory, Taxation, Organised Markets, Co-operation, Transport, Economics of Agriculture with special reference to India, International Banking and Foreign Exchange Problems.
- (3) B.Com.: Accounting and Auditing, Banking, Cotton Industry, Co-operation, Public Finance, Advanced Statistics, Transport, Business Management.
- (4) Post-graduate Diploma in Co-operation: Co-operation
- (5) Post-graduate Diploma in Banking: Banking.
- (6) Under-graduate Diploma in Co-operation: Co-operation.

2. Number of Students

The classwise distribution of students during the year 1968-69 was as under:

Class	Men	Women	Total
(1) Diploma in Co-operation	*8	1	9
(2) F.Y.B.Com.	520	110	650
(3) S.Y.B.Com.	401	71	472
(4) T.Y.B.Com.	406	63	469

* One student permitted to join Under-graduate Diploma in Co-operation and S.Y.B.Com., simultaneously.

Class	Men	Women	Total
(5) Jr. M.Com.	25	3	28
(6) Sr. M.Com.	22	1	23
(7) Post-graduate Diploma in Co-operation	6	1	7
(8) Post-graduate Diploma in Banking	33	4	37
Total	1,421	254	1,675

3. Staff

The staff of the Faculty consisted of 9 Readers, 13 Lecturers, 4 Part-time Professors, 6 Class III and 11 Class IV servants as on 31st March, 1969. The Departments of English, Law, Mathematics, Statistics and General Education made arrangements for the teaching of the subjects of English, Mercantile Law, Mathematics, Statistics and General Education. Members of the staff of this Faculty gave lectures in the Faculty of Technology and Engineering, Faculty of Arts, Faculty of Law and General Education Programme.

4. Professional Growth of the Staff

(1) Articles Published:

Shri C. S. Rathod, Women's Co-operatives Kurukshetra, Ministry of Lecturer in Food and Agriculture, Community Development and Co-operation, April 1968.

5. Co-curricular Activities

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

(1) Economics Students' Association, (2) Banking Students' Association, (3) Accountancy Students' Association, (4) Business Management Students' Association and (5) Co-operation Students' Association. The Associations arranged talks, debates and essay competitions.

6. Other Important Events

(1) The Dena Bank Trophy Debate was held on 14th December, 1968. The subject of the debate was "In the opinion of this house, self reliance alone holds the key to the development of India to-day."

(2) On 29th November, 1968 the Faculty organised on behalf of the Committee for Co-operative Training, National Co-operative Union of India, New Delhi an Inter-Faculty Prize Debate on Co-operation. The subject of the debate was "Co-operative Store alone can be an antidote to the exploitation of the consumers". The scroll was won by the Faculty of Commerce.

(3) During the year under report, under the joint auspices of the M. S. University of Baroda and the Committee for Co-operative Training, National Co-operative Union of India, New Delhi, the IX All India Inter-University Debate on Co-operation was organised by the Faculty on 20th January, 1969. The subject of the debate was "Co-operative Movement in India will succeed only when State Aid to the movement is withdrawn." Kum. Nirupama Thakkar and Shri Faroukh Elavia of the Faculty got consolation prizes.

(4) The Faculty participated in the Inter-Faculty Youth Festival and won the third prize in the Group Dance Competition.

CHAPTER XII—FACULTY OF MEDICINE

(A) MEDICAL COLLEGE

1. Courses of Studies

The College provides instruction in courses leading to the M.B.B.S. degree as well as in the following post-graduate degrees and diplomas :

(1) Post-graduate Subject

Degrees :

- (a) M.D. Anaesthesia, Paediatrics, Pharmacology, Physiology, Preventive and Social Medicine, Obstetrics and Gynaecology and Radiology.
- (b) M.S. Anatomy, E.N.T., Orthopaedic and Surgery.
- (c) Ph.D. Anatomy, Bio-chemistry, Parasitology/Bacteriology, Pharmacology and Physiology.
- (d) M.Sc. Anatomy, Bio-chemistry, Pathology/Bacteriology, Pharmacology and Physiology.

(2) Post-graduate

Diplomas :

- D.A. Diploma in Anaesthesia.
- D.C.P. Diploma in Pathology.
- D.G.O. Diploma in Obstetrics and Gynaecology.
- D.L. & O. Diploma in Laryngology and Otology.
- D.M.R.E. Diploma in Medical Radiology and Electrolgy.
- D.O. Diploma in Ophthalmology.
- D.C.H. Diploma in Paediatrics.
- D.V. & D. Diploma in Venereal Diseases.
- T.D.D. Diploma in Tuberculosis Diseases.

2. Number of Students

(1) Degree :	Men	Women	Total
M.B.B.S.			
1st Year	109	10	119
2nd Year	102	24	126
3rd Year	93	24	117
4th Year	100	20	120
5th Year	120	33	153
Total	524	111	635

	Men	Women	Total
(2) <i>Post-graduate Degree :</i>			
M.D.	15	5	20
M.S.	9	—	9
M.Sc.	4	1	5
Ph.D.	—	—	—
Total:	28	6	34
(3) <i>Post-graduate Diploma :</i>			
D.A.	2	2	4
D.C.P.	1	—	1
D.G.O.	—	4	4
D.L. & O.	—	—	—
D.M.R.	1	—	1
D.O.	—	2	2
D.C.H.	—	1	1
T.D.D.	—	—	—
D.V.D.	—	—	—
Total	4	9	13
Grand Total	556	126	682

3. Staff

The Staff of the Medical College consisted of a Dean, 14 Professors, 2 Associate Professors, 30 Lecturers, 35 Junior Lecturers and other gazetted staff, 4 part-time Lecturers, 3 part-time Junior Lecturers and 97 Class III and 72 Class IV employees. The S.S.G. Hospital has on its staff, a Superintendent, an Assistant Superintendent, 4 Honorary Professors, 6 Honorary Medical Officers, 13 Honorary Assistant Medical Officers, 4 Full-time specialists, 4 Full-time Medical Officers, 2 G.M.S. Class II and a Matron.

(1) *New Appointments :*

Lecturers :

Dr. J. M. Dave and Dr. B. R. Joglekar (Bacteriology), Dr. N. P. Bhatnagar (Physiology), Dr. R. E. Vakil (E.N.T.) and Dr. N. D. Vasavada (Biochemistry).

Junior Lecturers :

Dr. (Kum.) H. S. Ratna and Dr. (Kum.) A. N. Mehta (Obstetrics and Gynaecology), Dr. (Smt.) V. Handa and Dr. J. B. Kupala (Pathology), Dr. A. C. Shah and Dr. V. T. Sanchala (Preventive and Social Medicine), Dr. S. M. Trivedi (Anesthesia), Dr. S. K. Narang (Ophthalmology).

Part-time Lecturers

Dr. V. C. Patel (Cardiothoracic), Dr. A. M. Gordhandas (Orthopaedics), Dr. U. T. Patel (Surgery).

Others

Shri R. B. Trivedi—Radiographer.

(2) *Teachers who left the University:*

Professors

Dr. H. S. Lakhtakia (Surgery)—Resigned
Dr. B. A. Sayed (Pathology)—Resigned
Dr. M. G. Amin (Physiology)—Transferred
Dr. C. B. Patel (E.N.T.)—Resigned

Associate Professor

Dr. S. D. Sharma (Psychiatric)—Resigned

Lecturers

Dr. H. G. Desai (Ophthalmology)—Resigned
Dr. (Smt.) A. S. Mehta (Pathology)—Resigned
Dr. J. C. Patel (Surgery)—Resigned

Junior Lecturers

Dr. T. H. Saherawala (Pathology)—Resigned
Dr. M. O. Desai (Pathology)—Resigned
Dr. A. P. Shah (Pathology)—Resigned
Dr. J. S. Kirtane (Pathology)—Resigned
Dr. (Smt.) I. P. Patel (Anaesthesiology)—Resigned
Dr. (Kum.) H. S. Ratna (Obstetrics and Gynaecology)—Resigned
Dr. R. S. Gund (Anatomy)—Resigned
Dr. V. H. Patel (Anatomy)—Resigned
Dr. S. A. Kulkarni (Preventive and Social Medicine)—Resigned

4. Professional Growth of the Staff

67 research papers have been published by teachers of various departments of the College. Moreover a good number of research schemes are under progress in several departments.

5. Library

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

(1) Books (including back numbers of Journals as on 12,185 1-4-1968)

(2) Books written off during the year	11
(3) Books added during the year	422
(4) Books as on 31-3-1969	12,596
(5) Journals subscribed during the year	134
(6) Amount spent on binding during the year	Rs. 178-00
(7) Total amount spent for Library and/or Reading Room during the year	Rs. 30,000-00

6. Museum, Laboratory, Studios and Workshops etc.

Sr. No.	Item	Cost of equipment as on 1-4-1968 Rs.	Cost of equipment etc. written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment as on 31-3-1969 Rs.
(1)	Museum	3,31,530	625	48,742	3,79,647
(2)	Laboratory	9,53,647	9,322	7,499	9,51,824
(3)	Studio	13,483	—	—	13,483
	Total	12,98,660	9,947	56,241	13,44,954

7. Other Important Events

(1) The following team of distinguished W.H.O. experts participated in the teaching programme of the College.

(i) Dr. H. P. Tait, (ii) Dr. E. V. B. Morton, (iii) Dr. F. P. Hariggan, (iv) Mr. M. Snook and (v) Dr. A. R. Mills. They were all on full term basis.

(2) The following W.H.O. experts were on short term basis :

(i) Mr. A. H. Hopkar, (ii) Dr. C. Mawdsley, (iii) Professor S. L. Morrison, (iv) Professor A. S. Dancan, (v) Professor R. Cruickshank, (vi) Dr. J. O. Forfar, (vii) Dr. I. S. Kirkland, (viii) Dr. I. Campbell and (ix) Dr. R. M. Bernard.

CHAPTER XII (B)—SHETH UJAMSHI PITAMBERDAS AYURVEDIC RESEARCH UNIT, BARODA

1. Staff

The staff of the Unit consists of a Head (Honorary), Two Junior Research Vaidyas, One Research Assistant in Pharmacology, One Research Assistant in Chemistry, Four Class III and Six Class IV Servants. Dr. T. V. Patel, Dean of the Faculty of Medicine worked as Honorary Head upto 26th September, 1968. From 27th September till the end of the year 1968 Dr. O. D. Gulati, Professor of Pharmacology, Medical College, Baroda worked as Honorary Head of the Unit. Senior Research Vaidya Shri M. K. Brahmabhatt left the Unit in August 1968.

2. Functions of the Unit

Research in Ayurveda is the sole object of this Unit. The Unit has a Library, a Museum of Indian Medicinal Herbs and Minerals, a Clinical Laboratory, a Rasa-Shala and an Out-patient Department. Twelve beds at the S.S.G. Hospital have been placed at the disposal of the Unit for Ayurvedic clinical research and inpatient treatment.

3. Library

The total number of books is 2,631. Eight Ayurvedic Journals were subscribed to during the year.

4. Museum

Fifty groups of available medicinal herbs, each group consisting of 10 drugs according to the Pharmacological Classification of Charak are arranged and maintained in the Museum. Specimens of minerals and other useful medicines are also kept. A section on Ayurvedic Pharmacopacial medicines is also maintained. There are about 1,000 Ayurvedic specimens, 54 herbarium frames, 75 specimen jars of fresh herbs preserved in solution, 16 charts and maps. About 300 specimens have been collected for the herbarium and are classified. A relief map of India showing the distribution of important medicinal plants in India is exhibited in the Museum.

5. Research

(A) Out-patient Department

During the year 23,028 patients attended the unit for treatment.

(B) Clinical trials of well-known Ayurvedic remedies

(i) Evaluation of the effect of "Samshamani No. i" in cases of Neurotic depression. Six cases have been studied.

(ii) Evaluation of the effects of Shwas-yoga cum Shuddha Mahashila in cases of Shwasa and Kasa. Ten cases of Shwasa and Kasa have been studied.

(iii) Clinical trial of "Ekharā-beeja = Hygrophila spinosa" in cases of Male sterility. Fifty seven cases have been studied.

(iv) Evaluation of the Effects of "Darvyadi Quath-Ghanavati" in cases of dysmenorrhoea. Fifteen cases have been studied.

(C) *Pharmacological Research:*

(1) *Anti-inflammatory activity of Guggal:*

(i) Cotton Pellet Method:

Anti-inflammatory activity of guggal (160.0 mg/kg), dexamethasone (0.03 mg/kg) and indomethacin (1.0 mg/kg) was 49.6%, 69% and 58.4% respectively.

(ii) Formalin arthritis:

With regard to time course of anti-inflammatory activity of these drugs, plethysmographic method (Wilhelmi & Domenioz, 1951) was used. The anti-inflammatory activity of guggal appeared at the end of 46 hours and progressively increased during next 48 hour period. Anti-inflammatory activity of indomethacin and dexamethasone was manifested at the end of 22 hours reached a peak at 29 hour and was maintained at the peak level thereafter.

(2) *An eserine-like action of berberine:*

During the course of systematic pharmacological investigations of berberine, an alkaloid obtained from the root and bark of *Berbera lycium* (Daruhalad), potentiation of acetylcholine induced vasodepressor responses was observed. In view of this anticholinesterase activity of berberine was investigated. Experimental preparations included (i) isolated frog rectus abdominis muscle, (ii) isolated guinea-pig ileum and (iii) isolated rabbit trachea. Results obtained are in line with the proposed mechanism of inhibition of acetylcholinesterase by berberine.

6. **Garden**

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

CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. Review of Faculty Activities

(1) On the academic side the different boards of studies, deliberated and recast the syllabi of different subjects to be studied, especially in pre-final and final degree and post-graduate courses. This was deemed necessary, so as to be in tune with changing pattern of technology.

(2) The internal evaluation system was modified, on an experimental basis during the period under review. The weekly tests were replaced by test examinations in all semester subjects grouped together at a set of examinations. Such tests were conducted thrice in a semester. It is proposed to continue this system for sometime to come, before drawing conclusions about its merits or otherwise.

(3) Second year of the Sequential Summer School supported by the U.G.C. and USAID and in collaboration with the A.P.T.I. (India) was conducted during the summer of 1968 by the Electrical Engineering Department of the Faculty. In all 27 members from Institutions all over India participated in the programme. The third and final year of the Sequential School Programme will be conducted in the summer of 1969.

(4) A new programme of including Practical Training as a part of curricular activities was planned during the year, and is to be implemented from April 1969. The Programme entitled Co-operative Course (Sandwich course) envisages imparting planned industrial training to a limited number of selected candidates from Mechanical and Electrical branches, for a period of 43 weeks, (during two Summer Vacations and One Semester and Summer Vacation i.e. 7+7+29 weeks), before their Final Year Examination. M/s. Jyoti Ltd., Baroda have agreed to be the participating host Industry for the course. It is also planned to extend the scheme to other industries willing to participate after evaluation of the pilot scheme to be started in April 1969. The scheme is to be financed by grants from the Government of India, through its Western Regional Committee. Three members of staff of the Faculty are deputed to look after the implementation of the pilot project, and they are to actively co-ordinate the programme with the staff of the participating Industry.

(5) The Department of Architecture planned and built a low-cost-hut to serve as a model for constructing such dwellings for the flood-stricken population who suffered due to floods in Gujarat. The staff and students actively participated in the actual building of the model dwelling. The cost of two-room unit amounted to Rs. 1,280.

2. Courses of Study

The Faculty provides the following courses:

(i)	Master's degree:	
	M.E.	Civil, Mechanical, Electrical Engineering
	M.Text. Engg.	Textile Engineering
	M.U.D.	Architecture (Urban Design)
(ii)	Post-Graduate Diploma	Refrigeration and Air-conditioning
(iii)	B.E.	Civil, Mechanical, Electrical, Chemical, Metallurgical and Electronics Engineering
(iv)	B.Text. Engg.	Textile Engineering
(v)	B.Text. Tech.	Textile Technology
(vi)	B. Arch.	Architecture
(vii)	Post-Diploma Diploma:	Refrigeration and Air-conditioning
(viii)	Diplomas:	
	D.T.C. and	Textile Chemistry and Textile
	D.T.T.	Technology

3. Number of Students

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

	<i>Men students</i>	<i>Women students</i>	<i>Total No. of students</i>
(a) <i>Diplomas</i>			
Textile Chemistry:			
I Year	22	—	22
II Year	27	—	27
III Year (Final Year)	107	—	107
Textile Technology:			
Pre. T.T.	34	—	34
1st Year T.T.	34	—	34
2nd Year T.T.	39	—	39
3rd Year T.T. (Final Year)	31	—	31
Total	294	—	294
(b) <i>Post-Diploma</i>			
Diploma in Refrigeration	6	—	6
Total	6	—	6

	<i>Men students</i>	<i>Women students</i>	<i>Total No. of students</i>
(c) <i>Degree</i>			
B.E. I (CMEChMet)	354	1	355
B.E. II (Civil)	85	—	85
B.E. II (Mech.)	91	—	91
B.E. II (Elect.)	77	—	77
B.E. II (Chem.)	38	—	38
B.E. II (Met.)	45	—	45
B.E. III (Civil)	80	—	80
B.E. III (Mech.)	126	—	126
B.E. III (Elect.)	91	1	92
B.E. III (Chem.)	40	—	40
B.E. III (Met.)	34	—	34
B.E. IV (Civil)	108	1	109
B.E. IV (Mech.)	137	1	138
B.E. IV (Elect.)	74	—	74
B.E. IV (Chem.)	38	—	38
B.E. V (Civil)	84	1	85
B.E. V (Mech.)	116	—	116
B.E. V (Elect.)	54	—	54
B.E. V (Chem.)	37	—	37
B.E. I (Electronics)	23	—	23
B.E. II (Electronics)	18	—	18
B.E. III (Electronics)	13	—	13

Textile Engineering and Technology:

F.Text. Engg. and Tech.	34	—	34
S.Text. Engg.	26	—	26
S.Text. Tech.	44	—	44
T.Text. Engg.	32	—	32
T.Text. Tech.	27	—	27
B.Text. Engg.	17	—	17
B.Text. Tech.	38	—	38

Architecture:

B.Arch. I Year	27	8	35
B.Arch. II Year	41	16	57
B.Arch. III Year	40	12	52
B. Arch. IV Year	37	3	40

	Men students	Women students	Total No. of students
B.Arch. Final Year	40	4	44
Pre. Engineering Civil	3	—	3
Pre. Engineering Mech.	4	—	4
Pre. Engineering Electrical	3	—	3
	<u>2176</u>	<u>48</u>	<u>2224</u>
(d) Post-Graduate Diploma in Refrigeration and Air-con- ditioning	10	—	10
	<u>10</u>	<u>—</u>	<u>10</u>
(e) Post-graduate Degree:			
Civil:			
Public Health Engg.:			
Jr. Year	7	—	7
Sr. Year	8	—	8
Soil Mechanics:			
Jr. Year	4	—	4
Sr. Year	1	—	1
Highway Bridge Engg.:			
Jr. Year	5	—	5
Sr. Year	7	—	7
Hydraulics:			
Jr. Year	2	—	2
Sr. Year	2	—	2
Structural Engg.:			
Jr. Year	8	—	8
Sr. Year	8	1	9
Mechanical:			
Internal Combustion Engg.:			
Jr. Year	8	—	8
Sr. Year	9	1	10
Production Engg.:			
Jr. Year	5	—	5
Sr. Year	4	—	4
Electrical			
Automatic Control Devices:			
Jr. Year	7	—	7
Sr. Year	10	—	10

	Men students	Women students	Total No. of students
Power Engg.:			
Jr. Year	5	—	5
Sr. Year	4	—	4
M. Text. Engg.:			
Jr. Year	5	—	5
Sr. Year	—	—	—
Total	<u>109</u>	<u>2</u>	<u>111</u>
(f) Ph.D.	1	—	1
Total	<u>1</u>	<u>—</u>	<u>1</u>
(g) Government of India Technical Teacher Trainees:			
First Year:			
Civil	—	—	—
Mechanical	—	—	—
Electrical	—	—	—
Second Year:			
Civil Engg.	—	—	—
Mechanical	1	—	1
Electrical	2	—	2
Third Year:			
Civil	—	—	—
Mechanical	5	—	5
Electrical	1	—	1
Total	<u>9</u>	<u>—</u>	<u>9</u>
Summary			
(a) Diploma	294	—	294
(b) Post-Diploma Diploma	6	—	6
(c) Degree	2176	48	2224
(d) Post-graduate Diploma	10	—	10
(e) Post-graduate Degree	109	2	111
(f) Ph.D.	1	—	1
(g) Government of India Tech. Teacher Trainees	9	—	9
Grand Total	<u>2605</u>	<u>50</u>	<u>2655</u>

4. Staff

(a) During the year the staff of the Faculty consisted of 16 Professors, 32 Readers, 59 Lecturers, 3 Visiting Lecturers including retired teachers, 54 Senior

Instructors, 2 Junior Instructors, 29 Assistant Lecturers, 153 Class III and 86 Class IV Servants.

(b) New appointments:

- | | |
|---------------------------------|-------------------------------------|
| (1) Shri V. L. Gadgeel | Reader in Metallurgical Engineering |
| (2) Dr. D. C. Kantawala | Reader in Civil Engineering |
| (3) Shri Kunj Beharilal Agrawal | Lecturer in Mechanical Engineering |
| (4) Shri R. R. Chokshi | Lecturer in Textile Engineering |

(c) Teachers left during the year under report:

- | | | |
|--------------------|------------------------------------|----------------------|
| 1 Dr. K. S. Shah | Reader in Mechanical Engineering | For better prospects |
| 2 Shri B. M. Patel | " | " |
| 3 Shri C. S. Patel | " | To go to U.S.A. |
| 4 Shri V. S. Patel | Lecturer in Civil Engineering | For better prospects |
| 5 Kum. S. S. Dighe | Lecturer in Architecture | " |
| 6 Shri S. I. Patel | Lecturer in Mechanical Engineering | Retired |

5. Professional Growth of the Staff

(a) Articles or Papers :

- | Author | Title | Where published |
|--|---|--|
| 1 Piyush Parikh | A Mathematical formulation for solution of Boundary value problems in Soil Mechanics | Journal of Technology and Engineering, January, 1969 |
| 2 A. V. Shroff and N. Y. Hiriyur | Physico-Chemical Analysis of Potassium with clay | do |
| 3 V. S. Thattey and N. Y. Hiriyur | (i) A note on the proposed method for estimating bearing capacity
(ii) A note on the study of some of the aspects of stress strain characteristics of clayey soils | do
do |
| 4 K. Surappa | A note on Concrete Beams under Torsion | do |
| 5 Professor R. C. Patel and D. N. Thosor | Application of simplex technics in problems of sub-contract. | Journal of Institution of Engineers on eve of Jaipur session of February, 1969 |

- | Author | Title | Where published |
|-------------------------------------|--|--|
| 6 Dr. S. K. Mehta and Balachandran | Inventory control under uncertainty due to variable demand | Journal of Technology and Engineering, January, 1969. |
| 7 Dr. S. K. Mehta and B. K. Mandloi | A suggested inventory control procedure for purchased material and components in small and medium size Indian Manufacturing Industries | do |
| 8 Dr. R. V. Joshi | Thermal glow peak around 200 K in Kd. Ti. | do |
| 9 Dr. J. R. Pandya | Etch phenomena on Crystal surfaces I curvilinearity or restilinearity of etch figures | do |
| 10 Dr. A. P. Varma | Statistical behaviour of Fingering in a displacement process in heterogeneous porous medium with capillary pressure | Canadian Journal of Physics, Vol. 47 O P 319, February 1, 1969 |

(b) Books and Brochures :

- | Name | Title | Name of the publisher with month of publication |
|---|-------------------------------|---|
| Professor J. M. Shah and Dr. Jagdishlal | Theory of Machines II Edition | M/s. Jain Brothers, Delhi. |

(c) Participation in Conferences, Seminars, Symposium etc.

(1) Nine teachers of the Faculty were deputed to attend Conferences, Symposiums, Seminars, Conventions etc. in India.

(2) Professor J. S. Dave was deputed to attend the Second International Liquid Crystal Conference at the Kent State University, Ohio, U.S.A. from 1st to 21st August, 1968.

6. Faculty Union Activities

(1) The working of the co-operative store was satisfactory. The total sale during the year amounted to Rs. 17,380/-.

(2) Under the auspices of the Literary Association of the Faculty, lectures and talks on various subjects of general and engineering interest by prominent persons were arranged. Students of this Faculty took part in various Inter-Faculty, Inter-University and other debating and elocution contests.

(3) The Students' Chapter is a body of engineering students operating in this Faculty under the general guidance and supervision of the Institution of Engineers, Baroda Sub-Centre. Any student of engineering can become its member on payment of annual subscription of Rs. 2/- only.

The aim and objective of the Students' Chapter is to promote social, cultural and intellectual development of the students by arranging seminars, lectures and essay/debate competitions, showing educational films and taking them out for educational cum-sight seeing visits. The Chapter has shown during the last year, a number of documentary films of general and technical interest; conducted tours to the Gujarat Refinery, Dhuvaran Thermal Power Station, New Shorrock Mills (Nadiad), Physical Research Laboratory, and Radio Transmitter at Ahmedabad and certain local factories, staged a musical evening. It has its own library consisting mainly of text-books for the benefit of members.

(4) The Faculty has a stock of 23 films on various subjects of educational interest and also 14 strips of 35 mm films. Every year additional films are taken on loan for use from various organisations. Thirty-six films were shown during the months of July 1968 to March 1969.

7. Library

The reading-room of the Library has a seating accommodation for 130 students. The details regarding the average daily attendance of students and teachers in the library and/or the Reading Rooms and the number of books issued to them is given below :

Particulars	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	725
(2) Average number of teachers making use of the Library and/or the Reading Room daily	50
(3) Total number of books issued to students during the year	35,000
(4) Total number of books issued to teachers during the year	6,000

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

Particulars	Number	Cost in Rs.
(1) Books (including back numbers of Journals as on 1-4-1968)	29,694	5,38,121-74
(2) Books written off during the year	126	891-15

Particulars	Number	Cost in Rs.
(3) Books added during the year	3,493	77,412-98
(4) Books as on 31-3-1969	33,061	6,14,643-57
(5) Journals subscribed during the year	175	15,990-33
(6) Amount spent on binding during the year	—	1,506-60
(7) Total amount spent for Library and/or Reading Room at the end of the year	—	6,32,140-50

9. Museum, Laboratories, Studios, Workshop etc.

Item	Cost of equipment etc. as on 1-4-1968 Rs.	Cost of equipment written off during the year Rs.	Cost of equipment added during the year Rs.	Cost of equipment etc. as on 31-3-1969 Rs.
Laboratories, workshops, studios, etc.	41,27,213-36	—	2,31,035-00	43,58,248-36

10. Textile and Allied Industries Research Organisation (TAIRO)

The Textile and Allied Industries Research Organisation was started in 1953 in the Faculty of Technology and Engineering, M. S. University of Baroda. This is an autonomous body registered under Societies Act 1860 but its important feature is that it works in collaboration with the M. S. University.

The Textile and Allied Industries Research Organisation is the only research organisation in India carrying out researches in Textile Engineering and Textile Machinery. It is an applied engineering research institution in Gujarat on an All India basis. The activities of the organisation are of national importance and have benefited the textile industry by development of new machines, modification of existing machines, improved processes, simplification of complicated devices in textile testing and control instruments.

The important development in the recent years is the establishment of TAIRO precision workshop where machines or their components are manufactured according to the designs. There is a qualified staff of engineers and others to give shape to new ideas by producing proper machine drawings and designs and later manufacturing the machineries or parts. There is also a two-way traffic between the manufacturers and TAIRO for the exchange of knowledge and development of machines resulting in inventions and patents in the field of Textile Engineering.

Greater emphasis is laid for development of new ideas by joint consultations and there is every scope of increasing this activity, when more and more problems

are given to TAIRO. The need of the hour is self-sufficiency by producing engineering equipment and it is in this direction that the efforts of TAIRO continue.

During the past decade or so, it has been possible for TAIRO to patent following machines and devices :

(1) Signal light Attachment on carding engine for indicating finishing of laps, (2) Measuring motion for sliver on card, (3) Ring Spinning Machine, (4) Heald Testing Machine, (5) Electric Stop Motion for speed frames, (6) Picker Testing Machine, (7) Cotton Cleaning Machine, (8) Shade-o-meter, (9) Unispinner, and (10) Cotton Trash Analyser.

The outstanding developments of TAIRO in the field of Textile Engineering Research are (1) TAIRO Star Unispinner, (2) TAIRO Trash Analyser, (3) TAIRO Cotton Cleaning Machine and (4) Electric Stop Motion for speed Frames.

World patents have been taken for TAIRO Star Unispinner while other three have Indian Patterns. TAIRO has already entered into agreement with the industries for commercial exploitation of all the above developments on royalty basis.

TAIRO is engaged in the study of ringless spinning and it is likely that with the assistance and co-operation of Central Mechanical Engineering Research Institute an experimental model will be developed in due course. TAIRO is also engaged in the study of modern cotton ginning practices in U.S.A. and other countries.

11. Other Important Events

A study team of the Government of India, Ministry of Education, New Delhi visited the Faculty on 24th and 25th February, 1969 and held discussion for establishment of a Technical School for training technicians and reorganisation of diploma courses in Engineering and Technology.

CHAPTER XIV—FACULTY OF FINE ARTS

1. Courses of Studies

The Faculty offers the following courses :

(1) Ph.D.	Art Criticism and Painting
(2) M.A. (Fine)	Applied Arts, Art Criticism, Art Education, Painting and Sculpture
(3) B.A. (Fine)	Applied Arts, Painting and Sculpture
(4) Post-graduate Diploma	Museology
(5) Post-Diploma and Diploma	Applied Arts, Graphic Arts, Painting and Sculpture
(6) Diploma	Textile Design
(7) Certificate	Bronze Casting, Lithography, Pottery and Ceramics, Photography, Printing Process and Block-making and Woodcrafts

2. Number of Students

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

Year/Class	Men students	Women students	Total No. of students
(a) Certificate:			
1st Year	5	2	7
2nd Year	3	4	7
Total	8	6	14
(b) Diploma:			
1st Year	23	3	26
2nd Year	17	3	20
3rd Year	7	2	9
4th Year	20	2	22
Total	67	10	77
(c) Post-Diploma:			
Junior	5	1	6
Senior	7	1	8
Total	12	2	14

<i>Year/Class</i>	<i>Men students</i>	<i>Women students</i>	<i>Total No. of students</i>
(d) <i>Degree:</i>			
1st Year	16	11	27
2nd Year	11	8	19
3rd Year	13	4	17
4th Year	8	9	17
Total	48	32	80
(e) <i>Post-Graduate Diploma in Museology:</i>			
Junior	2	—	2
Senior	4	—	4
Total	6	—	6
(f) <i>Post-Graduate Degree:</i>			
Junior	5	2	7
Senior	1	1	2
Total	6	3	9
(g) <i>Ph.D.</i>	2	—	2
Grand Total	149	53	202

In addition to the above there were 32 non-collegiate students, Government Scholars, Commonwealth Students and Fulbright scholars and Students specialising in Bronze casting, Mural Decoration and Graphics.

3. Staff

The staff of the Faculty including the Department of Museology consisted of 3 Professors, 5 Readers, 19 Lecturers, 2 Assistant Lecturers, one Part-time Instructor and 14 class III and 17 class IV employees.

4. Professional Growth of the Staff

(1) Publication:

<i>Name</i>	<i>Title</i>	<i>Journal wherein published</i>
Professor K. G. Subramanyan	Paintings of Binode Bihari Mukherjee	Catalogue of the retrospective exhibition of the artist held in Delhi, March, 1969
Shri G. T. Sheikh	Drawings of Jeram Patel	Catalogue of the Exhibition of the Artist held in Delhi and Bombay, December, 1968

<i>Name</i>	<i>Title</i>	<i>Journal wherein published</i>
Shri V. H. Bedekar	Museum Presentation	A contribution to the Marathi Encyclopedia of the Government of Maharashtra

(2) Participation in other programmes/activities:

(i) Professor Sankho Chaudhuri was a special invitee to Germany during June-July, 1968 on the occasion of the opening of the Art Exhibition Documenta-4. He visited U.K. at the invitation of the British Council.

(ii) Shri Ratan Parimoo was deputed by the Ministry of Education to give lectures on Indian Art in Russia in June-July, 1968.

(iii) Professor K. G. Subramanyan presided over the Design Development Section of the All India Handicrafts Board Marketing Conference held at Jaipur in February, 1969.

(iv) Sarvashri Jeram Patel and G. T. Sheikh held one-man-shows of their paintings at Bombay.

5. Faculty Union Activities

(1) The Annual Fine Arts Fair was held on 14th and 15th December, 1968 and an amount of Rs. 10,502 was collected for the Students' Welfare Fund.

(2) An exhibition of Paintings, Sculpture and Graphics was arranged at Ahmedabad. A sale of greeting cards was done by the students and the staff and out of the collection of Rs. 6,840/-, a sum of Rs. 6,000/- was donated to the Gujarat Flood Relief Fund.

(3) A three-room hostel for students was completed on the Faculty premises with the voluntary labour of the students.

(4) 9 exhibitions were arranged in the Faculty Exhibition Hall during the year.

(5) The following lectures and demonstrations were arranged at the Museology Department and the Faculty :

<i>Lecturer</i>	<i>Subject</i>
(i) Dr. Clift Mawdsley	Perception
(ii) Dr. S. Pakvasa	Symmetries in Nature
(iii) Mr. Clifton Taylor	English Medieval Architecture
(iv) Dr. (Smt.) Kapila Vatsyayan	Dance in Indian Sculpture
(v) Shri R. K. Banerjee	Printing Techniques

6. Library

The Library received a grant of Rs. 3,000/- from the University as usual and it has been fully utilised. Noteworthy acquisitions during the year are (1) Encyclopaedia of the Arts ed. by Degobert D. Runes and Harry G. Schrickel, (2) Japanese Temples by Edward J. Kidder.

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

	<i>Books including back volumes of journals</i>	<i>Pamphlets</i>	<i>Cost in Rs.</i>
(1) Books (including back number of journals as on 1-4-1968)	4,966	94	77,617-03
(2) Books written off during the year	—	—	—
(3) Books added during the year	114	—	2,998-31
(4) Books as on 31-3-1969	5,080	94	80,615-34
(5) Journals subscribed during the year	14	—	1,024-16
(6) Amount spent on binding during the year	—	—	419-49

A small departmental library containing books on Museum and subjects covered by usual museum collections belonging to Smt. Hansa Mehta University Library, is maintained in the Museology Department for reference purposes.

7. Museum, Laboratory, Studios, Workshops etc.

<i>Sr. No.</i>	<i>Item</i>	<i>Cost of Equipment as on 1-4-1968</i>	<i>Cost of Equipment etc. written off during the year</i>	<i>Cost of Equipment etc. added during the year</i>	<i>Cost of Equipment as on 31-3-1969</i>
		<i>Rs.</i>	<i>Rs.</i>	<i>Rs.</i>	<i>Rs.</i>
(1)	Studios, Workshops, Painting, Sculpture, and Applied Arts	3,54,126-47	—	5,645-97	3,59,772-44
(2)	Museology Department	70,320-62	—	—	70,320-62
	Total	4,24,447-09	—	5,645-97	4,30,093-06

The new acquisitions in the Art History Museum and Archive are (i) Original painting on 'Mussoorie Landscape' by Shri B. B. Mukherjee, (ii) 397 slides of Indian miniatures and European and Indian Sculpture, (iii) Slide-strips of Europe Painting and Sculpture (received as gift from National Gallery of Art, Washington), (iv) 800 small size reproductions for the separate archive of 20th Century Indian Art and (v) 22 large size reproductions of paintings.

8. Faculty Publications

The fourth volume of 'Studies in Museology' edited by Shri S. M. Nair was published during the year.

9. Other Important Events

(1) Sarvashri Vinod Shah and Vinodray Patel, Lecturers in Painting received the National Awards in Painting; Shri V. S. Patel, Lecturer in Graphics won the National Award for Design.

(2) Sarvashri R. R. Panchal and G. C. Bhatt, Lecturers in Sculpture won prizes at the Gujarat State Lalit Kala Annual Exhibition held at Ahmedabad in December, 1968.

(3) Four students of the Painting Department, three of the Sculpture Department, five of the Graphics Section and one student of the Photography Section won prizes at various exhibitions.

CHAPTER XV—FACULTY OF HOME SCIENCE

1. Courses of Studies

(1) Doctor of Philosophy is planned in the following major areas:

- (i) Child Development,
- (ii) Clothing and Textiles and
- (iii) Foods and Nutrition.

(2) Master of Science (Home) is offered in all the five departments:

- (i) Child Development,
- (ii) Clothing and Textiles,
- (iii) Foods and Nutrition,
- (iv) Home Management and
- (v) Home Science Education and Extension.

(3) One year Post-graduate diploma courses are conducted in:

- (i) Child Development: Nursery School Education and
- (ii) Foods and Nutrition: Dietetics.

(4) Four year course leads to a Bachelor of Science (Home) degree and a student may select a major in the final year in any one of the six specializations:

- (i) Child Development,
- (ii) Clothing and Textiles,
- (iii) Foods and Nutrition,
- (iv) Home Management,
- (v) Home Science Education and Extension and
- (vi) General Home Science.

The post-graduate diploma course in Dietetics was introduced during the year under report.

2. Number of Students

Class	Women	Men	Total
(1) B.Sc. (Home)			
(i) First Year	163	—	163
(ii) Second Year	117	—	117
(iii) Third Year	113	—	113
(iv) Fourth Year			
(a) Foods and Nutrition	21	—	21
(b) Child Development	12	—	12

Class	Women	Men	Total
(c) Home Management	14	—	14
Clothing and Textiles	8	—	8
(d) Home Science Education and Extension	13	—	13
(e) General Home Science	64	—	64
Total	525	—	525
(2) Post-graduate Diploma in Nursery School Education	6	—	6
(3) Post-graduate Diploma in Dietetics	3	—	3
Total	9	—	9
(4) Jr. M.Sc. (Home)			
(a) Foods and Nutrition	6	—	6
(b) Child Development	3	—	3
(c) Home Management	3	—	3
(d) Clothing and Textiles	7	—	7
(e) Home Science Education and Extension	6	—	6
Total	25	—	25
(5) Sr. M.Sc. (Home)			
(a) Foods and Nutrition	9	—	9
(b) Child Development	8	—	8
(c) Home Management	6	—	6
(d) Clothing and Textiles	4	—	4
(e) Home Science Education and Extension	8	—	8
Total	35	—	35
(6) Ph.D.			
(a) Foods and Nutrition	1	2	3
(b) Clothing and Textiles	1	1	2
Total	2	3	5
Grand Total	596	3	599

3. Staff

The staff of the Faculty consisted of 2 Professors, 5 Readers, 15 Lecturers, 13 Assistant Lecturers, 16 Research Associates, 15 Class III and 25 Class IV employees. The Faculty also continued to receive the help of the staff of the other faculties for teaching various courses.

Miss Maxine Burch (Visiting Professor under Ford Foundation Project) was a short-time consultant to help to set up a Diploma Course in Dietetics, introduced by the Faculty from the year 1968.

The following teachers left the Faculty:

(1)	Smt. Jyoti Dangoria	Reader in Home Management	Resigned on personal grounds.
(2)	Smt. Leela Gulati	Lecturer in Home Management	—do—
(3)	Smt. Tarulata Sutaria	Temporary Lecturer in Child Development	—do—

4. Professional Growth of the Staff

(a) Publications:

Name	Title	Where published
Dr. (Smt.) Amita Verma	(i) Systems of Pre-School Education in India	Annual Number of the Indian Association of Pre-School Education, December 1968.
	(ii) Pre-School Teacher Training in India	—do—
Kum. Savitri Pandit and Smt. Saroj Patel	A Book-Tie and Dye and Batik techniques for all	By the authors in October 1968.
Smt. A. Shah and Smt. K. Parlikar	Careers in Home Science	Government of Gujarat.

(b) Papers presented at Seminars, Conferences, etc.

Dr. (Smt.) Pramila Phatak	Motor Growth Patterns of India Babies and related factors	All India Paediatrics Conference held at Lucknow in January 1969.
Dr. (Smt.) Amita Verma	The role of progressive Nursery School in promoting cognitive Development	Annual Meeting of the I.A.P.E. in Hyderabad.
Dr. (Kum.) P. S. Chari	Current Trends in Research in Extension Education and Future Needs	All India Conference of Home Science Association of India in October 1968.

(c) Research Works in progress

Name	Subject of Research
Smt. J. B. Patel	Preparation and standardization of Common Gujarat recipes for normal and for different disorders.
Dr. (Kum.) S. Kotechari	(i) Interrelationship among Nutrients. (ii) Assessment of nutritional status of adolescent girls. (iii) Studies of cucurbita seeds.
Shri U. R. Gore	Diet survey of 1-7 years old children of 350 families.
Dr. (Smt.) P. Phatak	(i) Motor and Mental performance on Nancy Bayley scales. (ii) Follow-up study of Pre-schoolers. (iii) Child life at home covering mothering patterns.
Smt. K. Parlikar	Developing a model constitution for organisation of Mahila Mandals.
Dr. (Kum.) Vijay Taneja	Opinions, attitudes and preference of parents and children towards certain marriage and dowry practices.
Dr. (Kum.) Mariamma Mathew	Performance characteristics of household appliance used by urban and rural families for meal preparation.
Dr. (Kum.) Mariamma Mathew	Guides for standards in the kitchen for urban and rural families.
& Dr. (Kum.) Vijay Taneja Kum. Veena Kalia	A study of the amount number and kind of human resources available to selected representative households in urban and rural areas.
Smt. Asha Das	A study of time consumption patterns for the food preparation process in households with full time home-makers.

5. Faculty Union Activities

The students and staff of the Faculty arranged a Fun Fair on 9th February, 1969 and collected Rs. 5,000/- for the Chief Minister Relief Fund in the Gujarat State.

6. Museum, Laboratory, Studios, Workshop etc.

Item	Cost of equipment as on 1-4-1968	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1969
	Rs.	Rs.	Rs.	Rs.
Museum, Laboratory etc.	4,15,360-99	—	4,604-77	4,19,965-76

7. Other Important Events

(1) An All India Home Management Conference was organised on the Faculty premises by the Department of Home Management. The Conference was sponsored by the University Grants Commission. The theme of the Conference was 'Home Management as an evolving field in Home Science curricula'. Ten delegates from various Home Science Colleges of India, three Ford Foundation consultants and B.Sc. and M.Sc. (Home) students of the Faculty participated in the four day Conference. The specific purpose of the Conference was to better apprehend the role of Home Management in integrating and unifying field in Home Science curricula.

(2) The following were some of the distinguished visitors to the Faculty:

- (i) Mr. Wright, Visiting Professor under the Pilot Project in Urban Community Development.
- (ii) Professor R. K. Kapoor, Vice-Chancellor, Sambalpur University, Orissa.
- (iii) Dean Le Baron, Iowa State University, Ames Iowa.
- (iv) Mr. P. Geithner, Assistant Representative, Ford Foundation.
- (v) Mr. Hunt from Wheat Associates.

CHAPTER XVI—FACULTY OF SOCIAL WORK

1. Courses of Study

The Faculty offers a two-year course leading to Post-graduate Degree in Social Work (M.S.W.). The training programme consists of three major components :

(1) Class Room Work :

The courses of study aim at preparing competent workers for variety of positions in the field of social welfare. The policy has been to provide generic training, training in Social Work. In regard to theory courses the system of electives was introduced during the academic year under report in the hope that it would enable students to select field courses according to their specialization.

(2) Field Work (Practical Training) :

On an average the students put in 15 hours a week for their practical training. There are five agencies co-operating with the Faculty and participating actively in providing learning experience for the students.

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

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

(i) Rural Community Welfare Centres :

The Faculty is running two Rural Community Welfare Centres at villages, Bhaili and Raipura, where 5 to 7 students are placed every year for their field work training. As a part of student training programme the Faculty carried out Social Education Programme for members of the Youth League. These programmes included recreational and cultural activities, literacy classes, discussions on topics related to social and economic life of rural people. The students organised women's groups in different Falias of the village, and also encouraged village youth to take active interest in community programmes.

(ii) Fatehgunj Samaj Kalyan Kendra :

Established in the Fatehgunj area in the year 1951, the Centre extends training facilities to the students and also serves as a service agency for the local community. The main functions of the Kendra are recreational and social educa-

tion programmes for different age groups, subsidiary diet for children under 12 years, community education on health problems, advice on family planning and School of Social Work. During this academic year, 7 students were placed in the Centre for their field-work experiences. This year the Centre had organised a variety of activities for youth.

(3) *Research Experience :*

As part requirement for the Degree of Master of Social work, the students of the Faculty undertake research studies which are primarily intended to provide an experience in the use of research methods. 29 students prepared dissertations during the year.

(4) *Camp and Study Tour :*

The camp and study tour programmes form a part of the total training programme of the students in the Faculty. A programme of camp was organised at Khadsali, District Bhavnagar during the first academic term for junior students. The purpose was to provide students with an experience in democratic group living and also to offer them an opportunity to study the working of a rural community development block sponsored by the State and also to study the various activities of the Khadi and Village Industries Board. A study tour to Poona was arranged for senior students to help them get acquainted with different types of welfare services organised by voluntary organisations or those managed by the State Department of Social Welfare. Visits to some industrial organisations were also included to enable students to learn more about labour welfare services as they exist in different settings.

2. **Number of Students**

The number of students enrolled in the junior and senior classes at the commencement of the year 1968-69 was as under :

	Men	Women	Total
Junior Class	28	15	43
Senior Class	26	13	39
Total	54	28	82

3. **Staff**

The staff of the Faculty consisted of 1 Professor, 2 Readers, 5 Lecturers, 3 Assistant Lecturers, 1 Part-time Lecturer, 9 class III and 7 class IV servants.

(i) *New Appointments :*

Kumari Rekha Mukerji, Lecturer in Shri V. T. K. Institute of Rural Development, Samiala has been appointed as Temporary Lecturer in the Faculty from 1-5-1968.

(ii) *Teachers who left the Faculty :*

Shri S. R. Ramdev, Lecturer resigned from 9-7-1968.

4. **Professional Growth of the Staff**

(a) *Participation in Programmes, etc. :*

Shri B. J. Pandya worked at the East-West Centre, Honolulu Hawaii, U.S.A. for processing the data on Family Planning and also participated in the programme for promoting international understanding.

5. **Faculty Union Activities**

(1) *Students' Association :*

During the year the Association had organised socials, sports, outings, debates and lectures by eminent speakers on topics of academic interest.

The Study Circle, which was started by the Students' Association, has been working well. During the academic year, series of lectures on different topics were held under the auspices of the circle. In addition to this, the students participated in the programmes organized at the University level.

(2) *Award of Shields :*

Rao Bahadur Ramlalbhai H. Desai Gold Medal and Shrimati Manorama Karandikar Shield were awarded to Kum. Rani Bakhtani who stood first in order of merit for the group enrolled for the year 1966-68. The Alumni Association shield was awarded to Kum. Usha Trivedi, alumni of the group 1966-68 who stood second in order of merit.

(3) *Alumni Association :*

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

During the last 19 years of its establishment the Faculty has trained 425 graduates. Many of them are holding key positions in the field.

6. **Library**

(I) *Acquisition notes:*

(1) *Books :*

The Faculty has a separate library of its own and maintains it from the grant that is received from the University for the purpose. This year the grant of Rs. 3,000/- was received for books, Rs. 1300/- for periodicals and Rs. 1000/- for educational films.

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

	<i>Books (including bound periodicals)</i>	<i>Pamphlets</i>	<i>Total Value in Rupees</i>
Number at the beginning of the year	6759	2050	57,803-06
Number added during the year	494	250	4,499-73
Total	7253	2300	62,302-79
Number written off	—	—	—
Number remaining at the end of the year.	7253	2300	62,302-79

(2) *Periodicals :*

The total number of periodicals and scholarly journals subscribed to during the year stands at 47. About 132 volumes of bound periodicals were added to the stock during the year. Amount spent for subscription etc. is Rs. 1,189-30.

7. Distinguished Visitors

The following are some of the distinguished visitors to the Faculty.

<i>Name of the Visitors</i>	<i>Date of Visit</i>
(1) Mr. Philipos Mar, Crysostom Bishop of Mar Thome Church, Kerala	20-12-1968
(2) Dr. Bruce Stave, Fulbright Visiting American Lecturer	12-2-1969

8. Shri V. T. K. Institute of Rural Development

The Institute has a staff of 13 teachers, 6 ministerial staff and 12 class IV employees. The Institute carried out the following programmes:

(1) *Social Welfare Training Programme :*

- (i) Training Programme for 45 trainees admitted in 1967-68.
- (ii) Two courses of Orientation in Family and Child Welfare. 35 trainees from eight States participated.
- (iii) Basic training for Chief Organizers of the Family and Child Welfare Projects, of one full academic year's duration. 43 trainees from 12 States of India have been admitted. The training will be completed by the end of October 1969.

(2) *Panchayati Raj Training Programme :*

This is the fifth year of the programme which has been sponsored by the Government of Gujarat, Department of Rural Development, Panchayati Raj.

- (i) In the months of April-May, 1968 and February-March, 1969 eight courses of Orientation in Panchayati Raj were conducted. These training courses were for the office bearers of the village panchayats. At an average, 55 trainees took part. These courses took the form of four days' workshop. Teachers went in a team at the place of the training camp.
- (ii) From June, 1968 to December, 1968, basic training for Village Panchayat Secretaries was conducted. Thirty-eight appeared for qualifying examination (of the Government of Gujarat) and thirty-five passed.
- (iii) In the month of (Part of) December, 1968 to January, 1969 two courses of Refresher Training for the Village Panchayat Secretaries were conducted. In the respective course 38/37 were admitted. Each course was of three weeks' duration.

(3) *Family Planning Work :*

The work has reached a crucial stage. There is a possibility of continuing the work in a new form. Failing that the scheme would be wound up.

(4) *Seminars :*

(i) *Social Welfare Seminar:*

A seminar on Family and Child Welfare was organised from 1st to 3rd January, 1969. Delegates from U.P., M.P., Maharashtra and Gujarat States participated in the seminar.

(ii) *Panchayati Raj Seminar:*

In the month of September, the Baroda District Panchayat Pramukh, two M.L.A.s, Chairman, District Education Committee joined the teachers and trainees to discuss a working problem : "Public Workers perception of V.P. Secretaries and V.P. Secretaries perception of Public Workers."

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

- (i) Shri M. C. Nanavaty from the Ministry of Social Welfare, Government of India.
- (ii) Mrs. B. Ghufan, Shri K. Subba Rao and Begum Alizahir from the Central Social Welfare Board.
- (iii) Shri S. M. Maiwand, Dr. Nayak and Dr. Sindhu Phadke from the UNICEF.
- (iv) Mr. Gardon Carta, UNICEF South West Asia Zone Regional Chief,

CHAPTER XVII—FACULTY OF LAW

1. Courses of Studies

The Faculty of Law imparts instruction for the following courses:

- (1) (a) Bachelor of Laws (LL.B.)
- (b) Bachelor of Laws (General)
- (c) Bachelor of Laws (Special)
- (2) Master of Laws (LL.M.)
- (3) Ph.D. in Law
- (4) Post-graduate Diploma in Taxation Laws and Practice (D.T.P.)
- (5) Post-graduate Diploma in Labour Laws and Practice (D.L.P.)

Optional Courses at the LL.B. (General)

The new course for the degree of LL.B. (General) has been introduced last year. This year, in the second year of this degree course, a specialized study of Taxation Laws and Labour Laws has been introduced as an optional group (2 papers each)

2. Number of Students

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

Class	Men students	Women students	Total
First Year LL.B. (General)	176	18	194
Second Year LL.B. (General)	37	7	44
Second Year LL.B. (Old)	91	14	105
Total	304	39	343
D.T.P.	77	2	79
D.L.P.	44	2	46
Total	121	4	125
Jr. LL.M.	25	—	25
Sr. LL.M.	14	1	15
Total	39	1	40
Grand Total	464	44	508

3. Staff

During the year the staff of the Faculty consisted of one Professor, Reader, two Lecturers, nine Part-time Professors, two Visiting Professors, one Class III and three Class IV employees,

4. Post-graduate Studies

A commendable development took place in the field of Post-graduate studies. Hon'ble Justice Shri B. J. Divan, Judge of the Gujarat High Court was invited to engage the LL.M. classes and he engaged the classes regularly throughout the academic year. It is proposed to continue this association with the High Court in the interests of advanced studies.

The Post-graduate Diploma Courses for specialized study of Taxation Laws and Labour Laws continued to flourish.

5. Lectures

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

Speaker	Subject
(1) Hon'ble Chief Justice Shri P. N. Bhagwati	The Role of Judiciary under the Rule of Law
(2) Hon'ble Justice Shri B. J. Divan	(i) Law of Forward Contracts (ii) Agreements in Restraint of Trade (2 lectures) (iii) The Doctrine of Frustration (2 lectures) (iv) Minority in relation to Contracts
(3) Shri Yashodhar Mehta, Chairman, Official Language Legislation Commission, Gujarat State	Law and the Regional Language—The Problems of switching over.

6. Important Events

(1) Faculty of Law Trophy Debate

Faculty of Law Trophy Debate for all the Law Colleges in Gujarat State was held at Baroda on 11th January, 1969. Subject for debate was "In the opinion of this House, the Fundamental Rights are beyond the scope of Amendment. They cannot be amended". The Trophy was awarded to the Anand Law College.

(2) Official Language Legislative Commission

Professor H. C. Dholakia, Dean of the Faculty was re-appointed a non-official member of the official Language Legislative Commission by the Government of Gujarat.

CHAPTER XVIII—ORIENTAL INSTITUTE

1. The main work of the Institute is research and publication of unpublished important works carried on with the help of a very big collection of manuscripts and the collection of printed books on all subjects related to Indology. When the Institute was taken over by the University in 1949 it had a good record of publications—109 volumes in the Gaekwad's Oriental Series and 516 other books. At the end of March 1969 the number of publications in the Institute stood at 153 in the Gaekwad Oriental Series and 589 other books.

The publications are under the following series:

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

2. Post-graduate teaching

Besides the above, as a part of the scheme of coordination of the teaching of 14 Shastras of Sanskrit in the University, 7 members of the Institute have been recognised as Post-graduate teachers in Sanskrit and Gujarati for guiding M.A. and Ph.D. students.

During the year, the Director, the Deputy Director, the Head of the Ramayana Department and other recognised teachers of the staff of the Institute guided in all 4 Ph.D. students in Sanskrit, Gujarati and Ancient Indian Culture, 84 M.A. students (Junior and Senior) in Sanskrit and Gujarati and one Sr. M.A. student in Prakrit as a subordinate subject. The Director also worked as the Head of the Gujarati Department of the Faculty of Arts.

3. Staff

During the year, the staff consisted of 1 Director, 1 Deputy Director, 4 Research Officers, 9 class III and 6 class IV servants, as also the members of the Ramayana Department, 1 General Editor and Head of the Ramayana Department, 1 Assistant Editor, 2 Proof-Readers, 12 Critical Apparatus Writers, 2 Class III servants.

4. Professional Growth of the Staff

(1) Publications :

Name	Title	Where published
Professor B. J. Sandesara	(i) Jaina Monuments of India	Annals of the Bhandarkar Oriental Research Institute, Golden Jubilee Vol., 1968
	(ii) वेदविद्याभाष्यं लोकमान्य टिळकस्य संहोधन	“सुद्धिमंकाश”, ऑगस्ट, १९६८.
	(iii) शोध व संस्कृति	Published in the Vol. शोध : तत्त्व और दृष्टि, 1968.
	(iv) Detailed description of the Fort of Champaner in the Gangadasa Pratapavilasa, an unpublished Sanskrit Play by Gangadhara	Journal of the Oriental Institute, Vol. 18, Nos. 1-2, September-December, 1968
	(v) तस्मै श्री गुरुवे नमः	“ज्ञानांजलि” पू. मुनिश्री पुण्यविजयजी अलिवाहन ग्रंथ
	(vi) “अध्यात्म राजचंद्र” अने “कविनी शब्द”नां अवलोकनो.	स्वाध्याय, पु. ६, अंक २
	(vii) Some Thoughts on Methodology of Research in Humanities	Journal of Education and Psychology, April, 1968. (Issue on Research Methodology)
	(viii) अभूतकलशकृत छत्रमीर-प्रबन्ध—अंक संक्षिप्त परिचय	“राजस्थान भारती”, भाग १०, अंक ४.
Dr. U. P. Shah	(i) Sculptures from Saraikela in the Patna Museum. (Jointly with Dr. P. L. Gupta)	Journal of the Oriental Institute, Vol. 18, Nos. 1-2.
	(ii) Life and Work of Muni Shri Punyavijayaji	Jnananjali, Baroda, February, 1969.

Name	Title	Where published
	(iii) In Early Stone Head from Daulatpur, Kaccha	Bulletin of the Baroda Museum, Vol. XIX, March, 1969
	(iv) Presidential Address, Fine Arts Section, All India Oriental Conference, Benaras, October, 1968	Journal of the Oriental Institute, Vol. 18, Nos. 1-2, September-December, 1968
	(v) નાનાસાહેબ પેશ્વાની ઉત્તરાવસ્થા	Svadyaya, Vol. 5, No. 3
	(vi) મારુ-ગુર્જર ગ્રંથસ્થ ચિત્રકલાના ઇતિહાસના ભૂલાયેલાં પ્રકરણો	Vidyapeeth, Ahmedabad, September-October, 1968
Shri P. H. Joshi	Unpublished Commentaries of Bharatyajna—an ancient vedic scholar from Gujarat	Journal of the Oriental Institute, Vol. XVII, No. 4
Shri N. N. Shah	અંભાતનો અકીક ઉદ્યોગ	Svadyaya, Vol. V, No. 4

‘અન્વેષણ’ a collection of research-papers by Professor B. J. Sandesara was awarded a prize of Rs. 600 by the Government of Gujarat, as it was adjudged to be one of the best books in Gujarati in the year 1968-69.

(2) Participation in Seminar/Conference:

(i) Dr. U. P. Shah worked as President of the Fine Arts Section of the All India Oriental Conference at Benaras.

(ii) Shri J. P. Thakar attended the Kalidasasamaroha at Ujjain organised by the Vikram University in November, 1968 and read a paper on ‘Female costumes in Bharavi.’

(iii) Sarvashri J. P. Thakar and P. H. Joshi participated in the symposium on History of Sciences organised by the National Institute of Sciences at Delhi in October, 1968.

(iv) Professor B. J. Sandesara attended the Asian Seminar on Book Publication at New Delhi in the second week of March, 1969.

5. Library

(1) Manuscripts Section:

This Section has a collection of 24891 Manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages and in several modern Indian

languages including a few in Persian and Arabic. Of these 53 were added during the year, out of which 2 were purchased and 51 were received as gift from:

- (i) Anant Narhar Mahajan, Baroda—47 MSS.
- (ii) Dr. N. S. Pandya, Head, Department of Physics and Dean of the Faculty of Science, Baroda—2 MSS.
- (iii) Dr. B. G. Desai, Reader in Philosophy and Joint Coordinator, Department of General Education, Baroda—2 MSS

During the year 19 Manuscripts were lent out to other institutions, 9 to local scholars and 271 were issued for work on the premises of the Institute.

(2) Printed Book Section:

The Institute has a well-equipped Library having a Collection of 31,936 books.

(i) Books:

This year the Library received a grant of Rs. 7,000/- for Printed Section from the University and Rs. 300/- for Ramayana Department and Rs. 5,000/- from the University Grants Commission under the Scheme of publication of Gaekwad's Oriental Series for the purchase of books and periodicals. The grants for printed section and for Ramayana Department have been fully utilised.

The following are some noteworthy additions during the year:

Agrawala, Prithvi Kumar, Gupta Temple Architecture, 1968. (Indian Civilisation Series No. 8);

Agrawala P.: Mathura Ralling Pillars, 1966;

Bhandarkar Oriental Research Institute, Poona—Index to Papers in Commemoration Volume, 1963;

Bharat Muni: The Natyasastra, a treatise on Ancient Indian Dramaturgy and Histrionics, 1967, tr. by Manmohan Ghosh;

Satya Prakash: Coinage in Ancient India, a numismatic archaeological and metallurgical study of ancient Indian coins;

The Geographical Encyclopaedia of Ancient and Mediaeval India based on Vedic, Puranic, Tantric, Jaina, Buddhist Literature and Historical records—ed. by K. D. Bajpai;

Hallade Medeleine: The Gandhara Style and the Evolution of Buddhist Art—Tr. from French by Diana Imber;

Sen S. N.: A Bibliography of Sanskrit Works on Astronomy and Maths. 1966; and

Samrat Jagannath: Samrat Siddhanta—ed. by Sharma Acharyavara Ram Swarup etc.

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

	Books including bound periodicals	Total value in Rs. P.
Total number of volumes as on 31-3-1968	29,655	2,85,871-65
Number added during the year 1968-69	2,241	23,616-00
Total	31,936	3,09,487-65

Out of the total number of books added during the year, 506 books were purchased at a cost of Rs. 12,296/- and 1,735 books were received as gift and on exchange basis. The most valuable collection of 661 books on Vedic and Sanskrit Literature was received as gift from Major V. K. Chopra.

(ii) *Periodicals* :

The total number of periodicals and scholarly Journals subscribed for and received on an exchange basis now stand at 306 (298 Exchange and 8 subscriptions).

(iii) *Circulation and Reference Services* :

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

6. Publications

(1) *Gaekwad's Oriental Series* :

Editing and Publication of the Series is one of the main activities of this Institute. By now 153 volumes have been published under this series.

The following work is under print, the progress of which is as under:

Krtyakalpataru (Pratisthakanda), edited by Shri K. V. Rangaswami Aiyangar (pp. 1-24), printed.

The University Grants Commission has approved on sharing basis a sum of Rs. 90,000/- for G.O.S. Publications during the IVth Plan. Accordingly the following works are under print:

- | | |
|------------------------------|--------------------|
| (i) Pancharatra Bibliography | (pp. 1-24 printed) |
| (ii) Satyasiddhi | (pp. 1-8 printed) |
| (iii) Agamapramanya | (pp. 1-16 printed) |
| (iv) Kiranavali | (pp. 1-96 printed) |

(v) An Arabic History of Gujarat (pp. 1-183 printed)

(vi) Chhakkamuvaeso (pp. 1-239 printed)

The Ministry of Education, Government of India, has sanctioned a sum of Rs. 43,300/- for re-printing ten out-of-print Sanskrit books. Eight works were published during the two previous years. With the publication of the following two works during the year, the scheme of publication of 10 works is completed.

(i) Nyayapravesa Part I GOS 38

(ii) Bhavaprakasana GOS 45

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

Laghu Prabandhasamgraha—edited by Shri J. P. Thakar (nearing completion).

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

Manmathmathananatyam—edited by Muni Shri Punyavijayaji and Dr. U. P. Shah (Text Printed—Formal pages are to be printed).

7. Translation Branch

The following works were published during the year in this series:—

(1) *Shri Sayaji Sahityamala*:

“क्षरसी साहित्यो हतिडास” —by Shri M. F. Lokhandawala

The following works are in progress :

(2) *Shri Sayaji Sahityamala*:

(i) “गुजरात ऐक दर्शन” —by Shri Shivprasad Rajgor
(pp. 1-432 printed)

(ii) “महागुजरातना मुसलमानो, भाग १-२” —by Late Shri K. M. Master
(pp. 1-576 printed)

(iii) “आभामंडलना वाधेरे” —by Shri Kalyanrai N. Joshi
(pp. 1-240 printed)

(3) *Text-Books in Regional Languages*:

(i) “अर्वाचीन भारतीय कुलवर्णनो विकास” —by Professor D. M. Desai
(pp. 1-728 printed)

(ii) “वनस्पतिशास्त्र प्रवेशिका” —by Late Professor A. R. Chavan and C. H. Pathak
(pp. 1-96 printed)

8. Ramayana Department

(1) *Editorial Section* :

(i) Yuddhakanda—(Ed. Dr. P. L. Vaidya)—pp. 377-624, printed.

(ii) Final Press Copy of Sargas 61-100 sent to the Press.

(iii) Press-copy of Sargas 81-116 prepared.

(2) *Collection Work :*

M7 Uttarakanda Sargas 75-110 (complete).

M8 Uttarakanda Sargas 1-111 (complete).

(3) *Index Work :*

Indexing of quarter verses of the Critical Edition of the Ramayana started from February, 1969 and nearly 20,000 (Twenty thousand) cards are prepared.

Attempts were continued to procure Malayalam MSS. of M4 tradition for Uttarakanda in view of the necessity of finding out more MS. evidence for Uttarakanda. The remaining portion of M7 which was borrowed last year was collated for Uttarkanda in the year under report. M7 was borrowed from the University of Kerala. Another important MS—M8 was also borrowed from the University of Kerala and was collated for the whole of Uttarakanda. Two more Malayalam MSS. were obtained on loan from Kerala for scrutiny but they were not found useful and so were returned to their owner. The work of the constitution of the critical text of the Uttarkanda was postponed last year in view of the necessity felt for collection of fresh evidence. The need of finding out more evidence for the constitution of the text of Uttarkanda was brought to the notice of the experts Committee of the University Grants Commission when it visited the Ramayana Department in April 1968. The Committee appreciated the attempts to procure more MS. evidence from Kerala and Bengal. Even though the work of the constitution of the text of the Uttarakanda was postponed last year to obtain more MS. evidence the work of publishing the Uttarakanda will be completed as per schedule.

9. Journal of the Oriental Institute

The institute has regularly published a quarterly Journal. During the year Vol. XVII, Nos. 3 and 4 and Vol. XVIII, Nos. 1 and 2 were published. 126 subscribers were registered during the year for Vol. 17 and 260 copies were sent on exchange basis. The Journal is specially devoted to research studies in Indology and also includes studied papers on Ramayana and allied topics concerning the epics and puranas.

10. Gujarati Quarterly Journal ' Svadhyaya '

The Institute has started a Gujarati Quarterly ' Svadhyaya ' Nos. 3 and 4 of Vol. V and nos. 1 and 2 of Vol. VI were published. 129 subscribers were registered during the year for Vol. V.

11. Distinguished Visitors

Name of the Visitor

Date of Visit

Dr. Rvdoen Kvrth,
Professor of Mathematics,
Georgia Institute of Technology,
Atlentia Georgia, U.S.A.

10-5-1968

Dr. S. Chandrasekhar,
Minister of State for Health,
Family Planning and Urban
Development,
Government of India, New Delhi

19-9-1968

Dr. Phil Willhelm Rau,
Professor of Indology,
Philipps—University,
Marburg/Lahn

19-11-1968

CHAPTER XIX—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

1. Courses of Studies

The College offers the following courses:

- | | |
|-------------|--|
| (1) M.Mus. | Music, Dance and Dramatics. |
| (2) B.Mus. | Music (Vocal and Instrumental—Sarangi, Sitar, Violin, Tabla), Dance (Bharat Natyam, Kathak) and Dramatics. |
| (3) Diploma | Music (Vocal and Instrumental—Sitar, Violin, Tabla), Dance (Bharat Natyam, Kathak) and Dramatics. |

2. Number of Students

The number of students enrolled in various classes during the year 1968-69 was as under:

(1) Diploma Courses:

Year/Class	Boys	Girls	Total
1st Year	189	122	311
2nd Year	71	78	149
3rd Year	24	41	65
4th Year	19	30	49
5th Year	15	13	28
Total	318	284	602

(2) Degree Courses:

1st Year	12	15	27
2nd Year	5	9	14
3rd Year	5	7	12
4th Year	4	9	13
Non-Collegiate	—	2	2
Total	26	42	68

(3) Post-Graduate Degree Courses:

Junior M.Mus.	3	3	6
Senior M.Mus.	3	3	6
Total	6	6	12

Grand Total	350	332	682
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3. Staff

(1) The staff consisted of:

1 Professor, 1 Hon. Professor and Visiting Lecturer, 3 Readers, 9 Lecturers, 6 Assistant Lecturers, and 17 Ustads including P.T. Ustads, 5 Tabla Accompanists, and 9 Class III Servants, and 10 Class IV Servants.

(2) New appointments:

Shri M. J. Bhatt, Lecturer in Dramatics was appointed as Reader in Dramatics from 19th March, 1969.

4. Faculty Union Activities

(1) A donation of Rs. 251/- was given by the College Association in aid of Gujarat Flood Relief Fund. A donation of Rs. 1407 was raised through a variety Entertainment programme on 25th August, 1968.

(2) The college invited Mr. Brian Barnes, a well known Actor of Europe to give 'A one Man's Performance' on 31st August, 1968.

(3) The staff and students co-operated with the Gujarat Rajya Sangeet Natak Akademi in organising Music Dance Festival at the State level as well as Omkarnath Sangeet Smruti Competitions in November, 1968.

(4) Nat-Ghar, a Drama Unit of the College presented a play 'CHIS', an adaptation in Gujarati by Shri Shrikant Trivedi on 7th, 8th and 10th January, 1969.

5. Library

The following statement shows the acquisition in the library during the year :

	Books	Bound Periodicals	Total value
(1) Number of Books at the beginning of the year	5,665	612	43,090-07
(2) Number of Books added during the year	197	—	2,338-08
(3) Number of Books withdrawn from the record	—	—	—
Total :	5,862	612	45,428-15

The College also subscribed to 42 periodicals.

6. Museum, Laboratory, Studios, Workshop etc.

Item	Cost of equipment as on 1-4-1968	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1969
	Rs.	Rs.	Rs.	Rs.
Museum	1,29,352-43	—	5,609-97	1,34,962-40

7. Other Important Events

The following were some of the distinguished visitors to the College

1. Professor R. P. Kapoor, 19-11-1968
Vice-Chancellor,
Sambalpur University
2. Mr. Tom Noonan, 10-2-1969
Expert on Theatre
Art and Drama, from U.S.A.

CHAPTER XX—BARODA SANSKRIT MAHAVIDYALAYA

1. Courses of Studies

The institution offers courses in four stages as under :

(1) Vachaspati : A research course of two years' duration for the higher post-graduate Research Degree of 'Vachaspati' has been instituted for those who have passed the Acharya examination of this University or its equivalent. (2) Uttamkaksha or Special Pandit course of four years' duration is split up into two: (a) The Shastri Course (Degree Course) extending over the first two years and (b) The Acharya Course (Post-graduate degree course) extending over the last two years in the subjects of (i) Vyakaran Shastra, (ii) Jyotish Shastra, (iii) Dharma Shastra, (iv) Sahitya Shastra, (v) Shud-dhadwaita Vedant, (vi) Sankhya Yoga and Vedant Darshan, (vii) Nyaya and Vaisheshik Darshan and (viii) Purva Mimansa Shastra. Only the first six (I to VI) branches worked during the year under report. (3) Madhyama Kaksha course of five years' duration leads to the Diploma 'Visharada' in each of the two branches of (a) Grammar and literature and (b) Astrology and Astronomy with English upto the S.S.C. standard compulsory for both the branches. (4) Pratham Kaksha or certificate course is of three years' duration in each of the four branches of (i) Yajurved Yajniki, (ii) Rigved Yajniki, (iii) Puran and (iv) Shukla Yajurveda with grammar and literature compulsory for all the branches.

The second year class in Shukla Yajurved Pratham Kaksha course was started during the year. The teaching of the subject of English was introduced in the first year of Shastri classes on a voluntary basis.

2. Number of Students

Number of students enrolled in various classes during the year 1968-1969 was as under:

(1) Pratham Kaksha Certificate	Men	Women	Total
1st year	16	2	18
2nd year	8	—	8
3rd year	9	—	9
Total	33	2	35
(2) Madhyam Kaksha (Visharad)			
(i) Vyakaran Shastra			
1st year	3	3	6
2nd year	3	—	3

Class	Men	Women	Total
3rd year	4	2	6
4th year	—	—	—
5th year	—	—	—
Total	11	5	16
(ii) <i>Jyotish Shastra</i>			
1st year	3	1	4
2nd year	—	—	—
3rd year	4	—	4
4th year	—	—	—
5th year	—	—	—
Total	7	1	8
(3) <i>Uttam Kaksha Shastri</i>			
(i) <i>Vyakaran Shastra</i>			
1st year	2	1	3
2nd year	—	—	—
(ii) <i>Jyotish Shastra</i>			
1st year	1	—	1
2nd year	—	—	—
(iii) <i>Sahitya Shastra</i>			
1st year	1	—	1
2nd year	—	—	—
(iv) <i>Dharma Shastra</i>			
1st year	1	1	2
2nd year	1	—	1
(v) <i>Shuddhadwaita Vedant</i>			
1st year	3	—	3
2nd year	—	—	—
Total	9	2	11
(4) <i>Uttam Kaksha Acharya</i>			
(i) <i>Vyakaran Shastra</i>			
1st year	1	—	1
2nd year	—	—	—
(ii) <i>Jyotish Shastra</i>			
1st year	—	—	—
2nd year	1	—	1

Class	Men	Women	Total
(iii) <i>Dharma Shastra</i>			
1st year	—	—	—
2nd year	1	—	1
(iv) <i>Sahitya Shastra</i>			
1st year	—	1	1
2nd year	—	—	—
(v) <i>Shuddhadwaita Vedant</i>			
1st year	2	—	2
2nd year	—	—	—
Total	5	1	6
(5) <i>Vachaspati</i>			
	2	—	2
Grand Total	67	11	78

3. Staff

During the year under report the staff of the institution consisted of the Principal, 13 Adhyapakas, 1 Honorary Adhyapak, 2 Class III and 4 Class IV servants.

4. Professional Growth of the Staff

(1) Publication

Name of the Contributor	Title	Where published
Shri H. C. Mehta, Principal, Sanskrit Mahavidyalaya, Baroda.	रत्नापल्या वस्तुविमर्शः	Annual Issue of Surabharati, 1968-69
Pt. Shri L. J. Zha, Pradhyapak in Jyotish Shastra	ज्योतिषे कुम्भपर्वरहस्यम्	„
Pt. Shri S. Y. Mishra, Pradhyapak in Vyakaran Shastra	चेतनात्मस्वरूपविवेचनम्	„
Shri J. R. Pathak, Adhyapak in Vyakaran Shastra	शक्ति पदार्थः	„

Name of the Contributor	Title	Where published
Shri L. J. Shukla Adhyapak in Vyakarana Shastra	न्यायशास्त्रस्य व्यावहारिकत्वम्	„
Shri B. K. Shastri, Hon. Adhyapak in Shuddhadwaita Vedant	अक्षरं ब्रह्म	„

(2) Talks

Seven teachers of the Sanskrit Mahavidyalaya gave extension lectures under the auspices of the Sharadopasak Mandal.

Principal Shri H. C. Mehta gave 4 popular lectures on (i) Yajna, (ii) Bharatiya Sanskar, (iii) Guru Sakshat Para Brahma and (iv) Shrimad Bhagavatam at Banag, Sundarpura and Baroda.

(3) Research Work

Shri H. C. Mehta	Rasgangadhar
Shri S. V. Bhattbhatt	Dharmashastra Mimansa Paddhati

(4) National Award

Shri H. C. Mehta, Principal of the Institute has been awarded the National Award for teachers of Sanskrit by the Government of India.

5. Library

The institution has a small library and a reading room. The following figures show the stock of books and the expenditure on the library.

Sr. No.	Particulars	Number	Cost in Rs.
(1)	Books (including back numbers of Journals) as on 1-4-1968	4,667	16,818-19
(2)	Books written off during the year	—	—
(3)	Books added during the year	164	1,331-28
(4)	Books as on 31-3-1969	4,831	18,149-47
(5)	Journals subscribed during the year	5	57-20

6. Other Important Events

(1) The following donations were received during the year:

- (i) Rs. 5,000/- from the Nathdwara Temple Board for teaching of Shuddhadwaita Vedant Darshan in Shastri and Acharya Classes.
- (ii) Rs. 5,000/- from Shri Jayantilal Manilal Thakkar for starting Shukla Yajurveda Second Year Class.
- (iii) Rs. 500/- from Sheth Shri Hansraj Pragaji Thackersey Educational Trust, Bombay for the purpose of giving additional stipends to students.
- (iv) 15 dollars from Dr. Edwin Zerow, Associate Professor of Sanskrit, University of Washington.
- (v) The Institute also accepted an offer of an annual donation of Rs. 100/- from Shri Ambalal Jethabhai K. Shah, Antarsubawala Trust Paritoshak for the award of prizes from 1970 to the participants of the cultural programme at the Annual Prize Distribution Ceremony.
- (2) The following were some of the distinguished visitors to the institute:
 - (i) Goswami Shri Prathamesh Maharaj of Jatipura
 - (ii) Goswami Shri Vrajraji Ranchhodlalji Maharaj of Ahmedabad
 - (iii) Dr. Edwin Zerow, Associate Professor of Sanskrit, University of Washington, Washington, U.S.A.

CHAPTER XXI—PREPARATORY UNIT: ARTS AND COMMERCE

1. Courses of Studies

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

2. Number of Students

The number of students enrolled in different classes at the commencement of the year 1968-69 was as under:

Class	Men	Women	Total
Preparatory Arts	416	359	775
Preparatory Commerce	797	121	918
Total	1,213	480	1,693

3. Staff

There are on the staff of the Unit a Head, 5 Class III and 6 Class IV servants. The teaching work is shared by about 50 teachers of the Faculties of Arts, Commerce, Science and the Department of General Education.

4. Library

The library of this Unit has been amalgamated with the main University Library. New books are being added every year to the extent of Rs. 1,000/-. Books are selected particularly suited to the capacity of the Preparatory students in English, Indian Languages, Social Studies and Science. Reading room facilities are available in the Central Hall of the Baroda College.

5. Faculty Union Activities

(1) The academic year began with the orientation programme wherein lectures were delivered on different important topics to the new students. Lectures on the importance of medical check-up and personal hygiene were also arranged. All Preparatory students were medically examined in the first term.

(2) Students voluntarily saved from their pocket expenses and an amount of Rs. 601/- was donated to the Gujarat Flood Relief Fund.

CHAPTER XXII—PREPARATORY UNIT—SCIENCE

1. Courses of Study

The Preparatory Unit for Science was detached from the Preparatory Unit for Arts, Science and Commerce and it started its independent working from 1st May, 1965. The Unit provides instruction in Preparatory Science Course of one year's duration.

2. Number of Students

During the year there were 898 men students and 174 women students. The total number of students was 1072.

3. Staff

There are on the staff of the Unit a Head, 5 Class III and 6 Class IV Servants. No separate teaching staff is appointed for this Unit but teachers from different departments in the Faculties of Arts and Science and the General Education Department teach the students.

4. Other Activities

(1) At the commencement of the first term of the Academic year 1968-69, an Orientation Programme for the new students was arranged in the Auditorium of the General Education Centre. Lectures on the importance of Medical checkup and personal hygiene were arranged for the students of Preparatory Unit—Science.

(2) The following lectures were arranged under the Extra Mural grant:

Name	Date	Subject
(i) Dr. N. M. Murti, Principal, Ramniranjan Jhunjhunwala Arts and Science College, Bombay	22-11-1968	Heredity and Human Affairs
(ii) Professor Alice (David) Dickinson, Massachusetts University	28-11-1968	Algebra with two numbers
(iii) Professor D. N. Pathak, Director-in-Charge, University School of Social Science, Gujarat University, Ahmeda- bad	22-1-1969	Political Develop- ment in India

<i>Name</i>	<i>Date</i>	<i>Subject</i>
(iv) Dr. Y. G. Naik, Principal, Manav Mandir C. U. Shah Science and Commerce College, Ahmedabad	23-1-1969	Light and Colour

5. Co-curricular Activities

(1) A charitable Film-show "UPKAR" was arranged by the Students Association of Preparatory Unit—Science on 18th August, 1968 at the Natraj Theatre. Rs. 1441 were raised through the film-show for extending aid to flood affected persons in Gujarat.

(2) One female student was selected to represent the University at the Inter-University Table Tennis Tournaments played at Dharwar (Karnatak University) during the first week of October, 1968. Two students were selected to represent the University at Inter-University Foot-ball tournament (Men) held at Ujjain in the second week of October, 1968.

(3) One girl student of Preparatory Unit—Science, won 2nd prize in the Classical Dance at the 18th Inter-Faculty Youth Festival held in December, 1968.

6. Other Events

(1) 43 students of the Unit appeared at the National Science Talent Search Examination held on 5th January, 1969.

(2) Casual classes in Science theory subjects viz. Biology, Chemistry, Mathematics and Physics were conducted to help the ex-students improve their progress.

CHAPTER XXIII—SHRI M. K. AMIN ARTS AND SCIENCE COLLEGE AND COLLEGE OF COMMERCE, PADRA

1. Courses of Studies

There was provision for the following Courses during the year.

- (1) Preparatory Courses in Arts, Science and Commerce.
- (2) First Year B.A. and B.Com.
- (3) Second Year B.Com.
- (4) Second Year B.A. (Major)—Economics, History, Gujarati and Political Science.

Second Year B.A. (Minor)—History, Gujarati, Hindi, Political Science, Mathematics, Psychology and Statistics.

- (5) Third Year B.A. and B.Com.

2. Number of Students

The number of students in different classes during the year was as under:

<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
<i>Preparatory Courses</i>			
(1) Preparatory Arts	60	7	67
(2) Preparatory Commerce	108	—	108
(3) Preparatory Science	73	4	77
Total	241	11	252
<i>Degree Classes</i>			
(1) F.Y.B.A.	24	7	31
(2) S.Y.B.A.	16	3	19
(3) T.Y.B.A.	14	11	25
(4) F.Y.B.Com.	52	1	53
(5) S.Y.B.Com.	22	1	23
(6) T.Y.B.Com.	16	—	16
Total	144	23	167
Grand Total	385	34	419

3. Staff

(1) During the year the staff of the College consisted of One Principal, 7 Lecturers, 11 Assistant Lecturers, One Physical Instructor, 10 Class III employees and 10 Class IV servants. Over and above the teaching staff attached to this Institution, teachers—one from the Faculty of Science and two from the Faculty

of Arts were invited for teaching the subjects of Statistics and Political Science and History respectively as part-time teachers. Two part-time Lecturers were appointed for "Mercantile Law" and "Accounting and Auditing".

4. Professional Growth of the staff

(1) Principal Shri I. A. Dave attended the 20th Session of the Conference of the Collegiate Teachers of Gujarati at Visnagar in December-January, 1969.

(2) Dr. Y. M. Naik, Lecturer in Zoology started the research work on 'Histo-chemical study of diaphragm of female rat during pregnancy.'

5. Faculty Union Activities

(1) Two students of the College were selected to represent the University at the Inter-University Hindi Elocution Competition held at Sholapur in December, 1968.

(2) The students and the teachers of the College collected an amount of Rs. 2,715-18 for the flood-affected areas in Gujarat.

(3) The following societies functioned during the year:

(i) Literary Society, (ii) Ancient Indian Culture Society, (iii) Students' Economics Association and (iv) Political Science Forum.

6. Library

The college has a separate library. It received from the University a grant of Rs. 13,500/- for books and Rs. 1,500/- for periodicals. The details of acquisitions by the College library are as under:

	Books	Periodicals	Total value in Rs.
(1) Number at the beginning of the year	1944 (including loan of 104 books from University Library)	58	15,801-25
(2) Number added during the year	1188	8	1,490-61* 13,499-86 @
* Periodicals @ Books			
(3) Total books and periodicals as on 31-3-1969	3132	66	29,791-72

7. Museum, Laboratory, Studios, Workshop etc.

The following is the statement of the cost of equipment.

Items	Cost of Equipment as on 1-4-1968 Rs.	Cost of Equipment etc. written off during the year Rs.	Cost of Equipment etc. added during the year Rs.	Cost of Equipment as on 31-3-1969 Rs.
Laboratories				
Physics	7,881-12	—	1,154-10	9,035-22
Chemistry	10,240-87	—	252-79	10,493-66
Biology	1,179-61	—	1,105-33	2,284-94
Total	19,301-60	—	2,512-22	21,813-82

CHAPTER XXIV—POLYTECHNIC

1. Courses of Study

The Polytechnic offers three year courses leading to the Diplomas in Civil, Electrical and Mechanical Engineering. It also conducts State (Extended) Diploma Courses of 4 year-duration on part-time basis.

2. Number of Students

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

Diploma Courses		Men	Women	Total
(1)	First Year	295	2	297
(2)	Second Year	303	1	304
(3)	Final Year (including supplementary)	410	6	416
Total		1,008	9	1,017
Extended Diploma Courses				
(1)	First Year	—	—	—
(2)	Second Year	85	—	85
(3)	Third Year	65	—	65
(4)	Final Year	51	—	51
Total		201	—	201
Grand Total		1,209	9	1,218

3. Staff

During the year under report, the staff of the Polytechnic as on 31-3-1969 consisted of 1 Principal, 4 Readers, 23 Lecturers, 29 Senior Instructors and 26 Junior Instructors, 7 Assistant Lecturers as well as 64 Class III and 48 Class IV servants.

4. Faculty Union Activities

(1) The Students' Association:

The Students' Association arranged lectures, talks and seminars on various subjects of general interest by prominent persons.

5. Library

Particulars	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	310
(2) Average number of teachers making use of the Library and/or the Reading Room daily	32

Particulars

Number

(3) Total number of books issued to students during the year	20,353
(4) Total number of books issued to teachers during the year	3,012

Stock and Expenditure on the Library:

Particulars

Number

Cost in Rs.

(1) Books (including back numbers of journals as on 1-4-1968)	10,495	1,58,610-56
(2) Books written off during the year	14	187-40
(3) Books added during the year	1,531	14,998-71
(4) Books as on 31-3-1969	12,012	1,73,421-87
(5) Journals subscribed during the year	68	2,995-55
(6) Amount spent on binding during the year		1,299-10
(7) Total amount spent for Library and/or Reading Room during the year		19,293-36

6. Museum, Laboratory, Studios, Workshops etc.

The institution is fully equipped with laboratories and workshops for imparting practical training to the students in the relative subjects. Information about the equipment and its value, etc. is as under:

Sr. No.	Item	Cost of Equipments/Machinery as on 1-4-1968 Rs.	Cost of Equipments/Machinery etc. written off during the year Rs.	Cost of Equipments/Machinery etc. added during the year Rs.	Cost of Equipments/Machinery as on 31-3-1969 Rs.
(1)	Laboratories	6,47,351-46	—	3,881-40	6,51,232-86
(2)	Workshops	3,01,986-16	—	49,917-62	3,51,903-78

7. Other Events

The scheme of Extended Diploma Courses in Civil, Mechanical and Electrical Engineering completed 5 year period of its implementation has ceased to receive financial assistance from the University Grants Commission from 10th December, 1968. The State Government has been requested to take over the liability of the recurring expenditure.

CHAPTER XXV—SHRIMATI HANSA MEHTA LIBRARY

1. Acquisition Notes

(1) Books :

The library received as usual a grant of Rs. 30,000 from the University for purchase of books and periodicals and the same has been fully utilised. The grants sanctioned by the University Grants Commission for purchase of books and periodicals for the Fourth Five Year Plan period are being utilized.

There have been some noteworthy additions during the year *viz.*, International Encyclopaedia of Social Sciences, ed. by D. L. Sills, 1968, 17 Vols.; Dewey Decimal Classification and Relative Index, 17th ed., 1965, 2 Vols.; Handbook of X-rays for Diffraction Emission, Absorption and Microscopy ed. by E. F. Kaelble, 1967; The McGraw Hill Dictionary of Modern Economics, by D. Greenwald, 1965; Asian Drama, an Inquiry into the Poverty of Nations, by G. Myrdal, 1968, 3 Vols.; Encyclopaedia of Library and Information Science, ed. by A. Kent and others, 1968, Vol. 1; Supreme Court Encyclopaedia by R. Gopalkrishnan, 1966-68, 8 Vols; India. Ministry of Information and Broadcasting: Encyclopaedia of Social Work in India, 1968, 3 Vols.; The Framing of India's Constitution, select Documents, ed. by B. Shiva Rao, 1966-68, 5 Vols.; Inter University Board of India and Ceylon, New Delhi: Universities Handbook, India and Ceylon, 1969; Party Building in a New Nation, the Indian National Congress, by M. Weiner, 1967. Growth and Development of Maharaja Sayajirao University of Baroda, 1949-1967, by D. M. Desai and S. S. Pandit, 1968.

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

<i>Institution</i>	<i>Number of Books</i>
Shrimati Hansa Mehta Library (which includes the books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law, Home Science and the Department of Museology)	6,168
Department of General Education and Preparatory Unit	125
Faculty of Technology and Engineering	3,493
Faculty of Fine Arts	114
Chetan Balwadi	40
Faculty of Social Work	492
College of Indian Music, Dance and Dramatics	207
Oriental Institute (Printed Section)	2,241

<i>Institution</i>	<i>Number of Books</i>
Polytechnic	1,531
Sanskrit Mahavidyalaya	164
Centre of Advanced Study in Education	675
Baroda Michigan Project	34
M. K. Amin Arts and Science College and College of Commerce, Padra	1,188
Total	16,472

Out of these books 3,592 were received as gift.

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

	<i>Books</i>	<i>Bound Vols. of periodicals.</i>	<i>Pamph-lets.</i>	<i>Manu-scripts.</i>	<i>Maps, Charts, etc.</i>	<i>Total Value in Rs.</i>
Number at the beginning of the year	2,26,886	25,648	13,250	248	737	35,38,397-30
Number added during the year	6,168	1,384	665	—	18	2,55,396-00
Number withdrawn from the records	—	—	130	—	—	—
Number remaining at the end of the year	2,33,054	27,032	13,785	248	755	37,93,793-30

(2) Periodicals:

The total number of periodicals and scholarly journals subscribed to during the year is 970. 1,384 volumes of bound periodicals were added to the stock.

2. Cataloguing

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

(A) Books classified and catalogued:

(1) New Accessions to University Library	6,168
(2) New accessions to the Faculty Libraries	10,304
(3) Bound periodicals catalogued	16,472
Total	1,384

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

	For University Library	For Faculty Libraries	Total
(1) Cards typed	13,408	55,410	68,818
(2) Cards filed in the catalogue	13,408	55,410	68,818

3. Circulation of books, etc.

As usual the working hours of the library for the whole academic year *i.e.* from April 1968 to March, 1969 (except in the months of May and June) were from 8-00 A.M. to 10-00 P.M. It also remained open on almost all Sundays and Holidays during the academic year.

This year also from August, 1968 the Central Hall Reading Room of the Baroda College building was kept open for the use of Preparatory and First Year students in Arts, Commerce, Science etc. This reading-room accommodates 225 readers and contains all the prescribed and recommended books for the Preparatory and First Year students. It remained open throughout the academic year and also on Sundays and Holidays in the months of January, February and March 1969.

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

(1) Post-graduate students	1,242
(2) Undergraduate students	6,399
(3) Research Scholars	113
(4) University teachers	710
(5) Others	502
Total	8,966

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

(1) Daily average number of readers visiting the library	2,100
(2) Daily average number of readers visiting the Reading Room of the Central Hall of the Baroda College Building	450
(3) Total number of books issued per day for reading	1,327
(i) Average number of books issued per day for home-reading from general collection	346
(ii) Average number of books issued per day from Curricular Section	313

(iii) Average number of books issued per day from Central Hall 310

(iv) Average number of books issued per day for reference 358

(4) Average number of books issued per reader in the year 43

4. Reference Section

(1) The Library organized an exhibition of books on Gandhian Literature to celebrate the Gandhi Centenary year on 2nd October, 1968. Besides this, weekly exhibitions of selected new books were also organized in the University Library.

(2) The following bibliographies were compiled during the year:

(i) Gandhian Literature, (ii) Lenin, (iii) National Integration, (iv) Handicraft Education, (v) India—Social Reform and (vi) Women Education in India.

(3) The Section published the 5th descriptive list of Ph.D. theses received in the Library during the year 1968-69.

5. Other Important Events

(1) Shrimati Hansa Mehta (University) Library celebrated the National Library Week from 14th November to 17th November, 1968 when lectures on Library Science were delivered to teachers of the Secondary High Schools of Baroda city.

(2) Result of the Bachelor of Library Science Examination this year (1968-69) was 73%.

CHAPTER XXVI—THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA PRESS

1. Staff

During the year, the staff of the Press consisted of a Manager, a Deputy Manager, a Senior Clerk Accounts-cum-Store-keeper, one Head Proof-Reader, one Senior Proof-Reader, one Junior Proof-Reader and a Clerk. There are 33 permanent workers in the Press.

2. Machinery

The Press has machinery worth about Rs. 1,96,014 including machines worth Rs. 1,19,350 purchased from the grant of the University Grants Commission. The Press has obtained an Import Licence for the second unit of the Monotype Type Caster and Monotype Keyboard which is expected to arrive in May 1969.

3. Printing Activities

During the year 1149 plus 239 examination papers were printed under conditions of secrecy for the University Examinations. The Press also printed Syndicate and Senate Proceedings, Details of Establishment, Annual Accounts, Budget Estimates, Pamphlets, Certificates, General Forms, Lists, Prospectus, Questionnaires, Magazines, Souvenirs etc. of the Faculties and Institutions. The University Press works for the University publications, magazines, stationery, printed forms etc. purely as a service department from April 1967.

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

<i>Name of the Book</i>	<i>Published by</i>
1 Sanskrit Plays from Epic Sources	Faculty of Arts
2 Bhankar	Faculty of Arts
3 Voting Behaviour in Baroda City (1967 election)	Faculty of Arts
4 Ancient Indian Society, Religion and Mythology as depicted in the Markandeya Purana	Faculty of Arts
5 Similes in the Ramayana	Faculty of Arts
6 Dietary and Nutrient Allowance for Indians	Faculty of Science
7 "Health" and "Ailments" of M. S. U. Alumni—a study	Faculty of Science

<i>Name of the Book</i>	<i>Published by</i>
8 Journal of the Indian Statistical Association	Faculty of Science
9 Hindi Ko Dvitiya Bhasa Ke Rupamen Shikhanewale Vidyarthiyan Ki Samanya Ashuddhiyoka Nid-atmak Vishleshana	CASE—Faculty of Education and Psychology
10 Guidance Needs of High School Students	Faculty of Education and Psychology
11 Local Norms of Chatterji's Non-Language Preference Record for Std. V & XI Research Report	Faculty of Education and Psychology
12 Time and Motion Study of Meal Preparation	Faculty of Home Science
13 Housing Facilities in Baroda—Gujarat	Faculty of Home Science
14 Ramakadan Pothi	Faculty of Home Science
15 Farshi Sahitya no Itihas (S. Sahityamala 306)	Oriental Institute
16 Sadhanmala Vol. I (G. O. S. 26)	Oriental Institute
17 Sadhanmala Vol. II (G. O. S. 41)	Oriental Institute
18 Bhavprakashana (G. O. S. 45)	Oriental Institute
19 Nyayapravesha Pt. I (G. O. S. 38)	Oriental Institute
20 Ramayan Cr. Edition Yuddhakanda Vol. VI (in progress) Second Fascicule	Oriental Institute
21 Weaving	Tairo
22 Problems of Student Unrest and Discipline...a Symposium Report	M. S. University of Baroda
23 Symposium on University Administration	M. S. University of Baroda
24 Nineteenth Annual Report, 1967-68	M. S. University of Baroda
25 Handbook pt. I, 1967-68 and 1968-69	M. S. University of Baroda

*Name of the Book**Published by*

- 26 The Report of the Vice-Chancellor's Committee on the Amendment of the M. S. University of Baroda Act

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

(i) The Journal of M. S. University of Baroda, (ii) The Journal of Oriental Institute, (iii) The Journal of Animal Morphology and Physiology (Half yearly), (iv) The Education and Psychology Review (Quarterly), (v) PAVO (Half yearly), (vi) Swadhyaya (Quarterly), (vii) Advances in Education (quarterly), (viii) Studies in Museology (Yearly).

4. University Stationery Unit

This unit is a service department of the University and is under supervision and control of the University Press Manager. It purchases and distributes stationery every quarter to all Faculties, Institutions and the University Office. It has a staff of one senior clerk, one stationery clerk, one riksha driver-cum-stationery distributor and one helper. During the year, stationery worth Rs. 1,50,335 was purchased and stationery worth Rs. 1,63,438 was distributed.

5. University Publications Sales Unit

This Unit is also under control and supervision of the University Press Manager. The establishment consists of a senior clerk, a clerk and one outdoor work assistant/attendant. It is working as a book-shop for University Publications. The total amount from sale of books during the year came to Rs. 50,028/-.

CHAPTER XXVII—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

1. The Executive Committee

During the academic year 1968-69, Shri R. D. Pandya was appointed as the President of the Union vice Dr. B. G. Desai, Professor R. C. Patel continued to work as Treasurer.

Elections for the Vice-President, General Secretary and Faculty Representatives were held on 13th July, 1968. Shri Anil Navale was elected Vice-President and Shri Jamshed Elavia, General Secretary. There were 28 representatives of various Faculties and Institutions. The following members were nominated by the Syndicate on the Executive Committee:

- | | |
|------------------------------------|------------------------------------|
| (1) Shri Bhailalbhai G. Contractor | Social Worker |
| (2) Shri H. P. Mehta | Advocate |
| (3) Shri Ashwin Shah | Student of the Faculty of Law |
| (4) Kum. Kalpana Patel | Student of the Faculty of Medicine |

The first meeting of the Executive was held on 23rd July, 1968 for appointment of Sectional Secretaries and allocation of various port-folios.

The following members were nominated by the Executive Committee on the boards of the University as shown below:

- | | |
|--|-----------------------------|
| (1) University Board of Sports | (i) Shri Mahesh Bakhai |
| | (ii) Shri R. F. Gangaramani |
| (2) University Students Welfare Board | (i) Shri A. S. Navale |
| | (ii) Shri J. D. Elavia |
| | (iii) Shri A. S. Gaekwad |
| (3) University Students Aid Fund Committee | (i) Shri J. D. Elavia |
| | (ii) Shri V. Y. Rajput |
| | (iii) Shri A. A. Memon |

The Executive Committee donated an amount of Rs. 5000 from its budget to the Gujarat Flood Relief Fund. Members also collected funds by working as coolies and shoe-shine boys.

2. The General Body

A large number of students attended the meetings of the General Body held on 28th August, 1968 and 18th January, 1969. At its second meeting the General Body recommended an amendment to the constitution so as to enable

the Diploma students in the University to be eligible for contesting the posts of Vice-President and General Secretary.

3. Activities of the Sub-Committees

(1) Discussion Group:

The group arranged discussions on the following two subjects:

- (i) Students' Power and Responsibility
- (ii) Politics and Education

Students and teachers participated in the above discussions.

(2) Debating Society:

The Society arranged the following debates during the year:

Debate	Subject
(i) The Baroda College Silver Jubilee and Science Debating Club Fund Debate	The beginning of 21st Century will be the End of Human Civilization.
(ii) The Pro-Vice-Chancellor Trophy Debate in Gujarati	આદર્શ લક્ષ કૃત સંવનન દ્વારા જ શક્ય છે.
(iii) Shri S. A. Sudhalkar Trophy Debate in Marathi	विनसांप्रदायिक राज्यामध्ये धार्मिक मिश्रस्सना स्थान नसावे
(iv) Shri B. N. Majmundar Trophy Debate in Hindi	साम्यवाद का प्रचार मात्र स्वतंत्रता का अवरोध करेगा
(v) The Vice-Chancellor Trophy Debate in English	Truth has no place in Politics
(vi) Shri M. N. Wadia Trophy Debate in English	The teachings of Gandhiji alone are an answer to our problems to-day.
The Union deputed students to participate in the following All India Inter-University Debates :	
(i) All India Antha College Hindi Debating Competition at Jaipur	1. Kum. Malti T. Gharpure—Faculty of Technology and Engineering 2. Shri Narendra Tiwari—Faculty of Law
(ii) All India Smarak Hindi Debate at Pilani	1. Shri R. R. Jagtap—Faculty of Education & Psychology 2. Shri Kishor Parikh—Faculty of Arts
(iii) All India English Debate at Pilani	1. Shri Raphael Poothokaran—Faculty of Arts

2. Shri Bharat Shah—Faculty of Technology and Engineering

- (iv) Jamshed S. Cama Elocution Competition in English at Ahmedabad
Shri Jamshed Elavia—Faculty of Technology and Engineering won IInd Prize

(3) Indoor Games (Badminton and Table Tennis):

Kum. Purnima Patel and Kum. Sheela Bhatt were once again the Champion and Runners up at the State level. Shri Rajani Patel and Shri Navnit K. Chokshi also represented the University at the State level. Shri Thomas Khambhatta, Kum. Pratima Godbole, Kum. Pushpa Khivsara came up in the Winners list also. Shri Uday Chande, Shri Ashwin Sanghvi, Kum. Sunanda Pendse and Kum. Vasundhara Gupta were Champions at the open Table Tennis Tournaments. The Chess Championship went to Shri Navin Shah and Shri M. R. Bhatt and Draught Championship went to Shri S. K. Mistry and Shri Navin Shah.

University Badminton Team (Men and Women) and Table Tennis Team (Men and Women) participated at the Inter-University Tournament in Badminton and Table Tennis.

(4) Hiking Club:

This year the club sent a batch of 30 students for the Basic Rock Climbing Course at Mount Abu and also undertook a night tracking trip to the Pavagarh mountain. Three students were selected and sent for the Advanced Training Course in Ice and Snow at Manali.

(5) Social Service Committee:

It arranged a Fun Fair. In summer vacation the Committee organised a Social Service Camp at Ranchhodpura Village (Taluka Savali) and helped to prepare an approach road of about 1½ Kilometer length.

(6) Co-operative Store:

The University Co-operative Store came into existence in December, 1968. It caters to the needs of the students and staff members at reasonable rates.

(7) U.N.O. Society:

The Society invited Prince Lowenstein for a lecture on 'The Present Day World Situation'. The Society deputed Sarvashri Dilip Gor and Mahesh Bakhai to participate at the U.N.S.A. Federation Conference at Bangalore.

(8) Emester:

The 'Emester'—a fortnightly publication brought out its issues regularly this year. It played an important role in focussing the problems of the students of our University and invited the attention of the authorities so as to solve the

problems. The Editorial Board organised 'Emester Week' and as a part of its programme organised a symposium on "Journalism". It also organised a symposium on "University—my vision". Smt. Hansa Mehta, Professor P. G. Mavlinkar, Shri R. C. Patel and Father Pinto participated in the symposium.

(9) *Expedition :*

The University Union for the first time in its history decided to undertake an expedition to Gangotri III at a height of about 21700 feet. It appointed an Expedition Committee which collected about Rs. 17000 from the Union, University Board of Sports, Vice-Chancellor's Discretionary grant, Ministry of Defence, Shri N. B. Amin, Bata Shoe Co., Shri Arvind Narottam and others. It selected the Expedition Team consisting of the following:

- (i) Shri Jamshed Elavia, Leader
- (ii) Shri Hemchand Jain, Deputy Leader
- (iii) Shri Hasendra Jhala
- (iv) Shri Dipak Ambegaonker
- (v) Shri Pralhadsingh Parmar
- (vi) Shri Surendra Patel—Technical Adviser
- (vii) Dr. Raju Trivedi—Medical Adviser

The team successfully scaled *Gangotri III* on 10th June, 1969 at 12-00 noon.

(10) *Inter Faculty Youth Festival :*

The Inter-Faculty Youth Festival Programme as usual was held for three days in the General Education Auditorium in the month of December, 1968.

4. *Deputation to Conferences*

<i>Conferences</i>	<i>Representatives sent by Union</i>
(1) National Integration Conference at Trivendrum	(i) Shri Ashwin Shah (ii) Shri S. H. Bhalvani
(2) Students Conference at Vallabh Vidyanagar	(i) Shri Anil Navale (ii) Shri S. H. Bhalvani
(3) Youth Leadership Training Camp at Madras	Shri Anil Navale
	<i>As Delegates</i>
(4) 15th Convention of NCUSI	(i) Shri Anil Navale (ii) Shri A. A. Memon
	<i>As observers</i>
	(iii) Shri A. S. Gaekwad (iv) Shri Manahar Patel (v) Shri Dharsinh Barot

- (5) Seminar on "Adjustment Problem of Students" at Ahmedabad Shri M. S. Barot
- (6) National Service Scheme Camp at Vardha (i) Shri P. C. Trivedi
(ii) Shri Jagdish Patel
(iii) Shri Niranjan Dodia
- (7) USEFI Seminar at Baroda (i) Kum. Ansuya Rane
(ii) Shri S. H. Bhalvani
- (8) Conference of Students and Youth Services at New Delhi sponsored by the Ministry of Education and U.G.C. Shri Anil Navale
- (9) Conference on Students' Problems at Mount Abu sponsored by the Jodhpur University Union (i) Shri Anil Navale
(ii) Shri Ashwin Shah

5. *Important Events*

(1) *Distinguished Visitors:*

- (i) A team of seven students of the University of California, Los Angeles (UCLA) visited the Union on 1st August, 1968.
- (ii) Shri Hitendrabhai Desai, Chief Minister of the Gujarat State visited the University Union and met the members of the Executive Committee on 3rd August 1968.
- (iii) Dr. D. S. Kothari, Chairman, U.G.C. and His Highness Shrimant Fatehsinh P. Gaekwad, Maharaja of Baroda and Chancellor of this University met the members of the Union Executive Committee in October 1968 and discussed with them the problems of the Student Community in the Country.
- (iv) Members of the USEFI Seminar and the USEFI Teachers' Seminar discussed students services in the M. S. University of Baroda with the members of the Union Executive in November 1968.
- (v) Shri Acharya Rajneesh and Shri Mahesh Yogi gave lectures to the students and the staff of the University in November-December 1968.

- (2) Shri Anil Navale, the Vice-President of the Union was elected as the National Secretary of the NCUSI.

- (3) The Union made a unanimous demand for representation of students on the University Senate.

CHAPTER XXVIII—GENERAL EDUCATION CENTRE

1. Students under the Programme

The General Education Programme was organised this year for the Faculties of Arts, Commerce, Science (including Pre-Medical), Home Science, Fine Arts and Technology and Engineering. The Programme in each of these Faculties was offered to the First and Second Year of the Three Year Degree Course, the final year of the degree course being entirely devoted to the optional or special studies.

The total number of students under the General Education Programme from various faculties is as follows:

Sr. No.	Faculty and Class	Total number of students
(1)	Faculty of Arts	
	F.Y.B.A.	481
	S.Y.B.A.	525
(2)	Faculty of Science	
	Pre-medical	133
	F.Y.B.Sc.	370
	S.Y.B.Sc.	310
(3)	Faculty of Commerce	
	F.Y.B.Com.	628
	S.Y.B.Com.	472
(4)	Faculty of Technology and Engineering	
	F.Y. Engineering	417
(5)	Faculty of Fine Arts (including College of Indian Music, Dance and Dramatics)	
	Second Year	31
	Third Year	26
(6)	Faculty of Home Science	
	Second Year	122
	Third Year	118
	Total	3,633

This does not include about 3,000 students of the Pre-University Arts, Science and Commerce classes, who take compulsory core courses in English Language, Indian Literature, Social Studies and Science.

2. General Education Courses

The following are the General Education Courses for the year:

- (1) Humanities (which included Literature and Art Appreciation).
- (2) Story of Human Civilization.
- (3) On Values of Life.
- (4) Social, Political and Economic Problems of India.
- (5) Science on its Impact of Life.

These courses were distributed over two years to the various faculty classes. Every student at the undergraduate level had to offer the above five General Education Courses out of which three were for University examination. In case of two there was no examination but attendance was compulsory.

3. Teaching Staff

The General Education Centre has a nucleus staff of nine teachers who not only teach in General Education and the Pre-University classes, but serve as liaison and help in the preparation of reading material and organisation of the programme. In addition to the above staff, thirty-one teachers from 16 departments and institutions of the University participated in the teaching assignment of the General Education programme of this year.

4. Professional Growth of the staff

(1) Publications :

Name	Subject	Published by
Shri K. S. Yajnik	(i) The Curriculum : Quest for the Minimum	NIE Journal, Government of India, New Delhi
	(ii) The Theory and Practice of the Social Studies	Orient Longmans, Bombay
Dr. B. G. Desai	(i) Emerging Youth	Popular Prakashan, Bombay
	(ii) Socio-Economic Status of Teacher in India	do
Dr. G. M. Oza	(i) The Genus Symthea Seem	Indian Forester, May, 1968
	(ii) History of Ratanjyot seeds	Science Reporter, 1968

(2) Participation on Committees, Seminars, Conferences

(i) Shri K. S. Yajnik worked as a resource person with the N.C.E.R.T., Department of Curriculum and Evaluation to develop text-books and supplementary books in Social Studies.

(ii) Dr. B. G. Desai, participated in the following Seminars:

(a) Seminar on 'Role of Students in Development' at Madras.

(b) Seminar on 'Student Services' at Vallabh-Vidyanagar.

(c) Seminar on 'The Teaching Profession in India' at Bombay.

(d) National Service Scheme Seminar at Bombay.

(iii) Smt. Sushma Mehta attended a Seminar on 'Student Services' at Bloomington, Indiana, U.S.A.

5. Library

The Library has a stock of about 2,000 books on General Education at a cost of Rs. 8,500 approximately.

6. Interest in General Education

Voluntary hobby classes organised by the Department were largely attended by the students during their leisure hours in afternoons and late evenings.

7. Other Events

Shri K. S. Yajnik returned from the U.S.A. after completing his assignment of developing courses in Indian Culture for American Schools and Colleges.

CHAPTER XXIX—STUDENTS' WELFARE ACTIVITIES

1. Halls of Residence

The University being residential makes constant efforts to increase and improve residential accommodation for its students. At its start in 1949 the University had accommodation for 200 men students in rented buildings and another 200 men students in University owned buildings. There was no hostel accommodation for women students. At the end of year 1968-69 there are ten Halls for men and four Halls for women students. The general policy of the University is to distribute students from various faculties in different Halls so that every hall has students from different Faculties. The University looks upon this as an important step towards the promotion of emotional integration among the students and towards awakening their awareness and interests in areas other than their own.

There is a considerable demand from students for residential accommodation in the University Halls of Residence. In order that the students may not be put to difficulties for searching accommodation in private houses in the city where the rents are exorbitant and facilities are comparatively poor, the University has to continue admitting 3 students in most of the rooms this year also. Even then the demand for Hostel accommodation is so great that the construction of new Hostels for boys is very urgent. The construction work of extensions to the Siddharaj Jayasinh Hall and Rabindranath Tagore Hall and a new Hall of Residence under the Metallurgical Degree course scheme was started during the year. The Ministry of Education have sanctioned an interest free loan of Rs. 17,38,000/- for the above works.

At the end of the year under report 2051 men students and 786 women students were in residence in different Halls as against 2,059 men students and 757 women students at the end of previous year. A statement showing the break up of these students Hallwise and Institutionwise is given in Appendix XI.

Administration of the Halls was carried on with advice of the Advisory Committee of the Halls of Residence and of the Wardens' Committee. All the Halls have been provided with Common Rooms, generally used as Library-cum-Reading-room also. Facilities for Indoor games are also provided in all Halls.

The University Health Centre dispenses medicines and provides treatment to students of the Halls, free of charge. In urgent cases the Medical Officer attends students in their rooms free of charge. The Medical Officer also visits each Hall once a month and inspects sanitation, messes, etc.

The Central Committee was formed with the Secretary, Wardens' Committee as its President. The following sub-Committees were formed to carry out cultural and social activities in each of the Halls.

1. Food Committee
2. Sports Committee
3. Cultural Committee
4. Entertainment Committee

The Sports Committee arranged Inter-Hostel Competitions in different games. The Central Entertainment Committee organised the Inter-Hostel Variety Entertainment Programme. The Committee made a net profit of Rs. 600 out of which a sum of Rs. 200 was donated to Handicapped students of the University. The students of the Halls of Residence collected a sum of Rs. 13,262 approximately for the Gujarat Flood Relief Fund.

2. University Health Centre

The Health Centre provides preventive and curative services to University students, staff members and their families. The staff of the Centre consisted of a Medical Officer, a Part-time Lady Doctor, 4 Class III and 3 Class IV employees. Two honorary physicians and one Lady Gynaecologist also continued to work in the Centre.

The new entrants were given a medical check-up by the Medical Inspection Board in the S.S.G. Hospital. Out of 4,075 students scheduled for examination, 3,411 reported for medical check-up. The Board advised 1,002 students for follow-up treatment for various disorders of skin, eye, ear, nose, throat, heart, etc. The information regarding the follow-up treatment has been available in case of 305 students. Miniature chest X-ray examination of students was taken during the medical check-up but no student was found to be suffering from Pulmonary Tuberculosis.

Halls of Residence are visited twice a month for inspecting sanitation and hygiene in the halls and the kitchens. 65 mess servants were examined of whom 29 showed evidence of intestinal infection with parasites. Fluoroscopic examination of the chest did not reveal any abnormality in any case.

During the year, the total attendance of the patients at the Centre was 23,725. 14,218 (59.93%) were from students and 9,507 (40.07%) from staff members and their families. The average daily attendance has been 65 cases during the year. The staff also attended to 360 emergency cases during the year.

The Centre also carried out 1,012 laboratory investigations of stool, blood, urine, smear, etc. The number of fluoroscopic examinations was 389 while that of X-ray films 126.

3. Physical Education Department

(1) Staff :

The Director of Physical Education, four Physical Instructors, two Lady Physical Instructors, three Swimming Trainers, and one Boating Trainer.

(2) Physical Training :

Physical Training was imparted to 1,119 men students by the Physical Instructors and P.T. Officers and also to 1,029 women students by the Lady Physical Instructors.

(3) Major Games :

Cricket, Tennis, Hockey, Football, Volleyball, Basketball, Kho-Kho, Kabaddi, Throwball and Netball were organised and conducted by the Physical Instructors, Lady Physical Instructors, and the Officer-in-charge of respective games.

(4) Swimming and Boating :

In Swimming 532 members and in Boating 154 members were given training by the Swimming Trainers and the Boating Trainer respectively. 2,221 guests also took advantage of the Swimming Pool.

(5) Tournaments and Competitions :

Cricket, Badminton and Basketball Teams participated in League and Knock-out Tournaments held in Baroda. Badminton and Basketball Teams also participated in the Gujarat State Championship held at Ahmedabad.

(6) Training of University Teams :

The training of various University Teams was organised and conducted by the Physical Instructors and the Officer-in-charge of respective games. Coaches were also appointed to give special training to Cricket, Hockey and Kho-Kho Teams.

(7) Inter-University Tournaments :

University Cricket, Hockey, Foot-ball, Kho-Kho (Men and Women), Kabaddi, Tennis, Badminton (Men and Women) Table Tennis (Men and Women), and Shooting Teams were sent to participate in the Inter-University Tournaments.

The Hockey team defeated Shivaji University in the first round but lost to Marathawada in the second round. The Kho-Kho team (Men) was runners-up in the All India Inter-University Kho-Kho Tournament.

Under the auspices of this University, the Inter-University West Zone Cricket Tournament was organised and conducted at Baroda. Our University defeated Indore in the Finals and won the Zonal Championship. Shri Mahesh

Patel scored 238 runs against Marathawada. In the Inter-Zonal match our University was defeated by the Delhi University. In the Universities Inter-Zonal Vizzy Trophy Cricket Tournament, three University players viz. Sarvashri M. Patel, S. Dudha and N. Satham played for the West-Zone at Delhi.

(8) *Inter-Faculty Tournaments :*

Inter-Faculty Cricket, Tennis, Hockey and Basketball Tournaments were organised and conducted by the Officer-in-charge and Physical Instructors.

<i>Tournaments</i>	<i>Winners</i>	<i>Runners-up</i>
(i) Cricket	Faculty of Commerce	Faculty of Medicine
(ii) Hockey	Faculty of Medicine	Faculty of Science
(iii) Tennis	Faculty of Science	Faculty of Commerce
(iv) Basketball	Faculty of Law	Faculty of Technology and Engineering

(9) *Winners of Individual Championship :*

<i>Games/Sports</i>	<i>Winners</i>	<i>Faculty/Institution</i>
(i) Badminton	R. R. Patel	Faculty of Arts
	Pushpa Khivsara	Faculty of Home Science
(ii) Table-Tennis	Uday Chande	Faculty of Technology and Engineering
	Sunanda Pendse	Faculty of Home Science
(iii) Tennis	V. Sinha	Faculty of Science
(iv) Athletics	J. J. Patel	Faculty of Science
	Surupa Vaishnav	Faculty of Commerce
(v) Boating	K. V. Patil	Faculty of Commerce
	Neena Wadekar	Faculty of Technology and Engineering

(10) *University Annual Sports :*

As a part of the 18th University Youth Festival, Annual Sports were held on the Union Pavilion Ground in December 1968. Students from various Faculties and Institutions participated in Track and Field Competitions.

(11) *Participation in National Championships :*

- (i) Five members of the University Cricket Team played for the Baroda Cricket Association in the Ranjit Trophy Cricket Tournament.
- (ii) Two members of the University Kho-kho Team played for the Gujarat State Kho-kho Association in the All-India Kho-kho Tournament.

4. National Cadet Corps

During the year under report the following NCC Units carried out their multifarious activities:

- (1) 3 Gujarat Battalion NCC
- (2) 12 Gujarat Battalion NCC
- (3) 19 Gujarat Battalion NCC
- (4) 5 Gujarat Girls Battalion NCC
- (5) 2 Gujarat Engineers Regt. NCC
- (6) 2 Gujarat Naval Unit NCC
- (7) 2 Gujarat Medical Coy NCC
- (8) 1 Gujarat Air Sqn. NCC
- (9) 3 Gujarat Tech. Air Sqn. NCC

Strength :

The allotment of NCC Officers' and Cadets' enrolled strength is given below:

<i>NCC Unit</i>	<i>NCC Officers</i>	<i>NCC Cadets</i>
(1) 3 Gujarat Bn. NCC	5	457
(2) 12 Gujarat Bn. NCC	5	572
(3) 19 Gujarat Bn. NCC	5	453
(4) 5 Gujarat Girls Bn. NCC	5	276
(5) 2 Gujarat Engr. Regt. NCC	4	429
(6) 2 Gujarat Med. Coy NCC	—	71
(7) 2 Gujarat Naval Unit NCC	2	95
(8) 1 Gujarat Air Sqn. NCC	2	195
(9) 3 Gujarat Tech. Air Sqn. NCC	1	33

Training of all the Units started in June, 1968 and terminated in February, 1969.

Maximum strength of NCC Officers and Cadets attended the training as well as camps. Competitions were arranged during camps in Line-Dressing, Platoon Drill, Best Turn Out and Guard Mounting.

Annual Training Camps :

<i>Unit</i>	<i>Camp</i>	<i>NCC Officers</i>	<i>NCC Cadets</i>
(1) 3 Gujarat Bn. NCC	Combined Annual Training Camp Rajpipla from 24-12-1968 to 2-1-1969	5	114

Unit	Camp	NCC Officers	NCC Cadets
(2) 12 Gujarat Bn. NCC	Combined Annual Training Camp Rajpipla from 24-12-1968 to 2-1-1969	4	132
(3) 19 Gujarat Bn. NCC	-do-	7	259
(4) 2 Gujarat Med. Coy NCC	-do-	—	68
(5) 2 Gujarat Engr. Regt. NCC	-do-	4	349
(6) 2 Gujarat Naval Unit NCC	Combined Annual Training Camp Udaipur (25-10-1968 to 3-11-1968)	2	055
(7) 3 Gujarat Tech. Air Sqn. NCC	Combined Annual Training Camp at Rajpipla (24-12-1968 to 2-1-1969)	—	028
(8) 1 Gujarat Air Sqn. NCC	Combined Annual Training Camp at Rajpipla (24-12-1968 to 2-1-1969)	2	030

Camps/Courses:

The number of cadets who attended various camps/courses is given below:

- (1) 3 Gujarat Bn. NCC 4 Cadets attended All India Summer Training Camp at Allandi.
 —1 Cadet attended Advance Leadership courses at Mahabaleshwar
 —1 Cadet attended combined Annual Training Camp for Naval Wing at Bangalore
 —9 Cadets attached to Regular Army Unit
 —6 Cadets attended shooting competition
- (2) 12 Gujarat Bn. NCC —2 Cadets attended Advance Leadership course at Mahabaleshwar from 1st May to 21st May, 1968.
 —12 Cadets attended All India Summer Training Camp at Alandi from 1st May to 14th May, 1968.
 —8 Cadets attached to Regular Army Unit at Jaipur from 15-5-1968 to 11-6-1968.

- (3) 19 Gujarat Bn. NCC —2 Cadets attended Advance Leadership course at Mahabaleshwar from 1st May to 21st May, 1968.
 —8 Cadets attached to Regular Army Unit at Jaipur from 15th May to 21st May, 1968.
- (4) 5 Gujarat Girls Bn. NCC —15 Girl Cadets attended All India Summer Training Camp at Poona from 15th May to 26th May, 1968.
 —1 Girl Cadet attended Mountaineering Institute Darjeeling from 14th April to 20th May, 1968.
 —1 Girl Cadet attended Mountaineering course at Manali from 1st June to 21st June, 1968.
 —1 Officer (Lady) and 15 Girl Cadets attended Annual Training Camp at Gargoti from 26th October to 4th November, 1968.
- (5) 2 Gujarat Engr. Regt. NCC —9 Cadets attached to Regular Army Unit.
- (6) 2 Gujarat Med. Coy NCC —2 Cadets attached to Regular Army Unit from 1st May to June 1968.
 —1 Cadet attended Advance Leadership course at Mahabaleshwar from 1st May to 21st May, 1968.
- (7) 2 Gujarat Naval Unit NCC —2 Cadets attended Republic Day parade at Delhi on 26th January, 1969.
- (8) 1 Air Sqn. NCC —1 Cadet attended Advance Leadership course at Mahabaleshwar.
 —1 Cadet attended Annual Training Camp at Bangalore.

Certificate Examinations :

The Certificate Examinations were held in February/March, 1969 and results are as under :

Unit	'B' Certificate		'C' Certificate	
	Appeared	Passed	Appeared	Passed
(1) 3 Gujarat Bn. NCC	24	23	1	1
(2) 12 Gujarat Bn. NCC	11	10	4	4
(3) 19 Gujarat Bn. NCC	169	135	7	6
(4) 2 Gujarat Engr. Regt.	31	23	3	3
(5) 2 Gujarat Med. Coy. NCC	25	12	—	—
(6) 2 Gujarat Naval NCC	24	12	—	—
(7) 1 Gujarat Sqn. NCC	17	17	3	3
(8) 3 Gujarat Tech. NCC	3	2	—	—

	'G-I' Certificate		'G-II' Certificate	
	Appeared	Passed	Appeared	Passed
(1) 5 Gujarat Girls Bn. NCC	12	12	4	4

Annual Day Function :

NCC Units held their Annual Day functions as under :—

Unit	Date	Chief Guest
(1) 3 Gujarat Bn. NCC	5-2-1969	Head of Prep. Unit—Science
(2) 12 Gujarat Bn. NCC	8-2-1969	Head, Prep. Unit—Arts, Baroda
(3) 19 Gujarat Bn. NCC	11-2-1969	Mayor, Municipal Corporation of Baroda
(4) 5 Gujarat Girls Bn. NCC	5-2-1969	Director, Organiser of Women Village Defence Corps
(5) 2 Gujarat Engr. Regt. NCC	13-2-1969	Dean, Faculty of Technology and Engineering, Baroda
(6) 2 Gujarat Naval Unit NCC	10-2-1969	Pro-Vice-Chancellor, M. S. University of Baroda, Baroda-2
(7) 1 Gujarat Air Sqn. NCC	19-2-1969	Station Commandar, Air Force Station, Baroda
(8) 3 Gujarat Air NCC	—do—	—do—

NCC Day Celebration

NCC Day was celebrated on 24th November, 1968 wherein parents were invited to see performance of the cadets. The programme consisted of drill, bayonet fighting, demonstration of sports by various NCC Units, flag communication, bridge construction, casualties evacuation, platoon attack, mock battles etc.

5. Students' Common Room

There are three Common Rooms for University Students. Two rooms are on the campus—one for men students and the other for women students. The third room generally known as Non-Resident Students' Centre is very near the Faculty of Technology and Engineering. The Women Students' Common Room and the Non-Resident Students' Centre were built with financial assistance from the University Grants Commission and the Government of Gujarat.

Cafeterias are attached to all the three Common Rooms. Facilities have been provided for indoor games such as Carrom, Draughts, Chess, Table Tennis, etc. and reading materials like daily newspapers, periodicals and small collection

of books. Committees consisting of the members of the teaching staff look after the upkeep and arrangements of the rooms. The rooms are also used for the meetings of Students' Association, social functions, indoor games and tournaments.

6. Hobby Workshop

The M. S. University Hobby Workshop imparts instructions and training to students in different hobbies viz. (1) Carpentry, (2) Assembling electric and electronic appliances, (3) Music, (4) Clay-modelling and (5) Photography. Six Part-time Instructors have been appointed to look after these hobbies. Students from several Faculties and Institutions avail of these facilities with interest and zeal. The total number of students enrolled during the year 1968-69 was 153 and they were distributed over the various hobbies as under:

Name of the Hobby	Students enrolled in the year 1968-69
(1) Carpentry	13
(2) Assembling electrical and electronic appliances	21
(3) Music	62
(4) Clay-modelling	5
(5) Photography	52
Total	153

7. University Employment Information and Guidance Bureau

The Bureau functions under the joint auspices of the Government of Gujarat and the M. S. University of Baroda. The main functions of the Bureau are (i) to provide employment information to the alumni, (ii) to register post-graduates of all subjects and graduates of professional and technical branches of employment, (iii) to sponsor candidates to employers and (iv) to provide vocational and educational guidance to the students of the University.

The following figures show the use of the facilities provided by the Bureau.

Activity	No. of students
(i) Registration	548
(ii) Submission	1446
(iii) Placement	47
(iv) Individual Information	485
(v) Individual Guidance	1
(vi) Guidance at the time of registration	173
(vii) Group Guidance Talks	46

Statement showing the number of students at the commencement of academic year 1968-69 Appendix I

Sr. No.	Institutions	*Post-graduate Courses			Degree Courses			Diploma Courses			Total			Grand Total 1968-69			Grand Total 1967-68			Grand Total 1966-67				
		Men		Women	Men		Women	Men		Women	Men		Women	Men		Women	Men		Women	Men		Women		
		3	4	5	6	7	8	9	10	11	12	13												
1	2																							
1	Faculty of Arts	167	118	550	801	32	7	749	926	1675	1747	1689												
2	Faculty of Science	270	76	770	260	—	—	1040	336	1376	1220	1175												
3	Faculty of Education and Psychology	61	36	89	161	14	60	164	257	421	380	387												
4	Faculty of Commerce	86	9	1327	244	†8	1	1421	254	1675	1510	1293												
5	Faculty of Medicine	32	15	524	111	—	—	556	126	682	821	775												
6	Faculty of Technology and Engineering	†129	2	2176	48	300	—	2605	50	2655	2746	2492												
7	Faculty of Fine Arts	14	3	48	32	£79	£12	141	47	@188	209	223												
8	Faculty of Home Science	3	71	—	525	—	—	3	596	599	599	581												
9	Faculty of Social Work	54	28	—	—	—	—	54	28	82	81	83												
10	Faculty of Law	160	5	304	39	—	—	464	44	508	491	540												
11	Preparatory Unit—Arts and Commerce	—	—	1213	480	—	—	1213	480	1693	1434	1333												
12	Preparatory Unit—Science	—	—	898	174	—	—	898	174	1072	1132	1032												
13	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	385	34	—	—	385	34	419	374	195												
14	College of Indian Music, Dance and Dramatics	6	6	26	42	—	—	32	48	80	55	45												
15	Baroda Sanskrit Mahavidyalaya	7	1	9	2	18	6	34	9	43	43	50												
16	Polytechnic	—	—	—	—	1209	9	§1209	9	1218	1393	1330												
Total :		989	370	8319	2953	1660	95	10968	3418	14386	14571	13354												
																					+ 336\$ + 131\$			

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

† Excludes 1 Man student of S.Y.B.Com. permitted to join the Undergraduate Diploma Course in Co-operation, simultaneously.

£ Includes 12 Post-Diploma men students and 2 women students. ‡ Includes 9 Government of India Technical Teachers Trainees.

@ Does not include 32 students who are non-collegiate and Government Scholars, Fulbright Scholars and Commonwealth Students.

§ Includes 201 men students of Extended Diploma Course.

Statement showing Non-University Students at the commencement of the year 1968-69

Institutions	Men	Women	Total 1968-69	Total 1967-68	Total 1966-67
(A) Diploma Courses :					
(1) College of Indian Music, Dance and Dramatics	318	284	602	518	472
(B) Certificate Courses :					
(1) Faculty of Arts	387	72	459	440	361
(2) Faculty of Fine Arts	8	6	14	11	4
(3) Baroda Sanskrit Mahavidyalaya	33	2	35	53	38
(C) S.S.C. Course :					
(1) University Experimental School	271	203	474	444	442
(D) Nursery Courses :					
(1) Chetan Balwadi	37	27	64	89	83
(2) Kindergarten	14	14	28	26	21
Total :	1,068	608	1,676	1,581	1,421

Appendix III

List of Degrees and Diplomas Conferred at the Annual and Supplementary Convocations during the year 1968-69

Sr. No.	Degree/Diploma	Annual Convocation October 1968	Supplementary Convocation March 1969	Total
1	Ph D. (Arts)	—	1	1
2	Ph.D. (Science)	15	12	27
3	Ph.D. (Education and Psychology)	1	2	3
4	Ph.D. (Engineering)	1	—	1
5	M.D.	9	13	22
6	M.S.	3	6	9
7	M.A.	100	—	100
8	Acharya	2	—	2
9	B.A.	326	77	403
10	Shastri	2	—	2
11	Bachelor of Library Science	11	1	12
12	M.Sc.	143	1	144
13	B.Sc.	140	51	191
14	M.Ed.	28	—	28
15	B.Ed.	142	—	142
16	Dip. in Guidance and Counseling	1	—	1
17	M.Com.	16	—	16
18	B.Com.	291	78	369
19	Diploma in Banking	32	—	32
20	Diploma in Co-operation	1	—	1
21	M.Sc. (In Medical Subjects)	3	4	7
22	M.B.B.S.	30	49	79
23	D.O.	1	—	1
24	D.L. and O.	1	—	1
25	D.Ped.	4	1	5
26	D.C.P.	1	1	2
27	D.G.O.	2	—	2
28	M.E.	5	29	34
29	B.E. (Electronics)	5	—	5
30	B.E.	121	11	132
31	B.Text. (Engineering)	22	9	31
32	B.Text. (Technology)	15	1	16

Sr. No.	Degree/Diploma	Annual Convocation October 1968	Supplementary Convocation March 1969	Total
33	B.Arch.	23	24	47
34	Dip. in Refrigeration and Air-Conditioning	1	6	7
35	LL.M.	4	—	4
36	LL.B.	98	35	133
37	D.T.P.	14	1	15
38	D.L.P.	29	—	29
39	M.A. (Fine)	4	—	4
40	M.Mus.	2	—	2
41	B.A. (Fine)	12	—	12
42	B.Mus.	7	—	7
43	Diploma in Museology	6	—	6
44	M.Sc. (Home)	12	13	25
45	B.Sc. (Home)	108	7	115
46	Diploma in Nursery School Education	1	1	2
47	M.S.W.	33	5	38
		1828	439	2267

A Statement showing the number of teaching staff of various faculties and institutions as on the 31st March, 1969

Faculty/Institution	Pro-fessors	Readers	Lectur-ers	Asstt. Lec-turers, Tu-tors, De-monstrators, Instructors	Hono-rary, Part-time & others	Total
Arts	9	12	40	21	4	86
Science	13	29	63	67	—	172
Education and Psycho-logy	3	5	16	6	—	30
Commerce	—	9	13	—	4	26
Technology and Engi-neering	16	32	59	85	3	195
Fine Arts	3	5	19	2	1	30
Home Science	2	5	15	13	16	51
Social Work	1	2	5	3	1	12
Law	1	1	2	—	11	15
Oriental Institute	1	1	4	—	—	6
College of Indian Music, Dance and Dramatics	1	3	9	6	1	20
Baroda Sanskrit Maha-Vidyalaya	—	1	4	8	1	14
Polytechnic	—	5	23	62	—	90
Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	7	11	1	19
	50	110	279	284	43	766

List of Students qualifying for the Ph.D. Degree in the year 1968-69

Sr. No.	Name	Subject	Title of the Thesis
1.	Shri A. P. Bhatt	Economics	Development of Banking in Saurash-tra with reference to Post-war period
2.	Shri M. M. Chauhan	Hindi	A Critical Study of Mehrama Singh's Praveen Sagar
3.	Shri K. R. Pillai	Bio-chemistry	Glutamic Acid Metabolism in Rat-Brain
4.	Shri S. B. Maini	Bio-chemistry	Studies on Normal and Tumour Plant Tissues
5.	Shri K. Ramchandran	Bio-chemistry	Formulation and Evaluation of low cost Balanced meals based on locally available foods for Children in the Post-Weaning period
6.	Shri S. D. Sabnis	Botany	A study of the Flora and Vegetation of Baroda and environs including an account of the Cyperaceae of Gujarat
7.	Shri S. J. Bedi	Botany	Floristic Study of Ratan Mahal and Surrounding Hills
8.	Shri Venkatraman Bhat C.	Chemistry	Some Studies with Ion Exchange Resins
9.	Shri R. B. Kamath	Chemistry	Studies in Ion Exchange
10.	Kum. B. Kanaklaxmi Nair	Chemistry	Studies in Biphenyl derivatives
11.	Shri R. A. Bhatt	Chemistry	Ion Exchange and related studies
12.	Shri M. J. Mehta	Chemistry	Studies with Ion Exchange Materials
13.	Shri U. K. Jagwani	Chemistry	Studies in Flavones and Flavanones
14.	Shri I. H. Sheth	Mathematics	Hyponormal operators in a Hilbert space
15.	Shri V. V. R. Reddy	Microbiology	The Mechanism of Carotene Bio-synthesis in Carrots and Mangoes

16. Shri B. B. Thakar Physics Optical studies of the Crystal Surfaces
—Antonony (Growth and Etch
Phenomena)
17. Shri A. B. Darji Physics Investigations on the Spectra of some
Diatomic Molecules (Halides of
Mercury)
18. Shri S. V. Shah Physics Luminescent Centres in Strontium
doped Sodium Chloride
19. Shri H. B. Patel Physics A Study of Metal Crystals (Silver
and Silver-Copper Eutectic Alloys)
20. Shri S. M. Shah Statistics Some contributions to Design of
Experiments and Statistical Inference.
21. Shri K. M. Cherian Zoology A Histophysiological and Biochem-
ical Study of Pigeon Breast Muscle.
22. Shri M. I. Andrews Zoology Ecology of the Social System of
the Jungle Babbler, Turdoides, Stria-
tus (Dumont)
23. Shri Bonny Pilo Zoology Histophysiological Studies on Certain
Tissues of the Migratory Starling
Sturnus Roseus with Emphasis on
the Liver
24. Shri K. M. Desai Zoology Histological and Histochemical Stud-
ies on the Cyclic Changes in the
Neuroendocrine system of a Migra-
tory (Anadromous) and a non-mig-
ratory fish
25. Shri M. A. Razak Zoology Some observations on the Biology
Siddique Kazi of the House Swift-Apus Affinis
(Gray)
26. Shri A. K. Desai Zoology Histophysiological Observations on
the Cyclic changes in certain Organs
and Tissues of the anadromous mig-
ratory fish Hilsa Ilisha (Ham) and
non-migratory Hilsa Toli (Cave. and
Val.)
27. Shri J. C. Banerjee Education Training of Primary Teachers in
India

28. Shri R. N. Patel Education A Critical Study of the character
traits of dull children studying in
Secondary Schools in Rural Area
and the problem of their Education.
29. Shri R. P. Patel Education A Critical Study of Recreational
Socio-Cultural, Intellectual and Oc-
cupational interests of High School
pupils in Gujarat
30. Shri V. C. Shah Civil Engineer-
ing Study of Viscosity—Temperature
Relationships of Paving Asphalts

Results of the University Examinations March/April and June, 1968

Appendix VI

Sr. No.	Examination	No. Appeared		Number Passed																	Percentage of pass
		No. Regd.	No. Absent	Men								Women									
				Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
1	Prep. Arts	998	14	499	485	984	—	3	41	132	176	—	13	78	116	207	383	36.48%			
2	F.Y.B.A.	681	8	300	373	673	—	2	28	74	104	—	6	64	164	234	338	50.22%			
3	*S.Y.B.A.	533	10	224	299	523	—	—	—	166	166	—	—	—	233	233	399	76.29%			
4	T.Y.B.A.	486	12	227	247	474	—	4	37	85	126	3	13	88	99	203	329	69.40%			
5	M.A.	118	8	65	45	110	—	5	27	25	57	—	2	25	16	43	100	90.00%			
6	Acharya	2	—	2	—	2	1	—	—	1	2	—	—	—	—	—	2	100%			
7	Shastri	2	—	2	—	2	—	1	1	—	2	—	—	—	—	—	2	100%			
8	Visharad	3	—	2	1	3	—	—	1	1	2	—	—	1	—	1	3	100%			
9	B.Lib. Sc.	15	—	7	8	15	—	—	3	2	5	—	—	3	3	6	11	73.33%			
10	Dip. Lib. Sc.	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%			
11	Dip. in German Lang.	22	4	15	3	18	—	10	2	2	14	—	2	1	—	3	17	94.44%			
12	Dip. in Russian Lang.	12	1	7	4	11	—	1	4	—	5	—	—	1	3	4	9	81.81%			
13	Prep. Science	1364	19	1170	175	1345	—	262	403	92	757	—	33	67	17	117	874	64.98%			
14	Pre. Medical	132	1	118	13	131	—	18	70	17	105	—	2	4	4	10	115	87.78%			
15	F.Y.B.Sc.	316	3	224	89	313	—	14	49	39	102	—	10	37	9	56	158	50.47%			
16	*S.Y.B.Sc.	335	13	248	74	322	—	—	—	142	142	—	—	—	62	62	204	63.35%			
17	T.Y.B.Sc.	234	10	165	59	224	6	14	43	27	90	1	12	28	10	51	141	62.94%			
18	*M.Sc. (Previous)	181	4	141	36	177	—	—	—	107	107	—	—	—	29	29	136	76.83%			
19	M.Sc. (Final)	156	1	127	28	155	—	22	79	15	116	—	3	21	3	27	143	92.25%			

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20	M.Sc. (Appl. Geology)	1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100%			
21	B.Ed. (Old Course)	3	—	1	2	3	—	—	—	1	1	—	—	—	—	2	3	100%			
22	†B.Ed. (New Course)	139	—	78	61	139	—	8	57	13	78	1	9	43	8	61	139	100%			
23	†Dip. in Edu. (New Course)	31	—	10	21	31	—	2	7	1	10	—	—	19	1	20	30	96.77%			
24	†Dip. in Early Childhood Edu.																				
25	U.G. (New Course)	26	—	—	26	26	—	—	—	—	—	—	—	15	11	26	26	100%			
26	M.Ed. (Old Course)	29	6	18	5	23	—	1	6	8	15	—	—	2	3	5	20	86.95%			
27	†M.Ed. (New Course)	8	—	2	6	8	—	1	1	—	2	—	1	4	1	6	8	100%			
	*P. G. Dip. in Guidance and Counselling (Old Course)	2	—	2	—	2	—	—	—	—	1	1	—	—	—	—	1	50%			
28	Prep. Commerce	1017	10	859	148	1007	—	16	174	262	452	—	4	38	46	88	540	53.62%			
29	F.Y.B.Com.	757	19	645	93	738	—	9	58	141	208	—	1	21	24	46	254	34.41%			
30	*S.Y.B.Com.	553	16	498	39	537	—	—	—	—	296	296	—	—	34	34	330	61.45%			
31	B.Com.	437	9	403	25	428	1	11	71	188	271	2	2	8	8	20	291	67.99%			
32	*B.Com. Under (O.Com. 27)	18	—	12	6	18	—	—	—	—	9	9	—	—	6	6	15	83.33%			
33	*B.Com. Under (O.Com. 25)	6	—	6	—	6	—	—	—	—	1	1	—	—	—	—	1	16.66%			
34	*Dip. Co-operation (U.G.)	8	1	7	—	7	—	—	—	—	6	6	—	—	—	—	6	85.71%			
35	*Dip. Co-operation (P.G.)	2	1	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100%			
36	M.Com.	24	4	18	2	20	—	—	—	9	6	15	—	1	—	1	16	80.00%			
37	*Dip. in Banking (P.G.)	43	1	40	2	42	—	—	—	—	30	30	—	—	2	2	32	76.19%			
38	*II M.B.B.S.	106	—	87	19	106	—	—	—	—	47	47	—	—	10	10	57	53.77%			
39	*II M.B.B.S. (Suppl.)																				
	July 1968																				
40	*III M.B.B.S.	48	1	38	9	47	—	—	—	—	24	24	—	—	6	6	30	63.83%			
41	*M.D. Br. I (Medicine)	80	1	59	20	79	—	—	—	—	43	43	—	—	13	13	56	70.88%			
42	*M.D. Br. II (Pathology)	14	1	13	—	13	—	—	—	—	4	4	—	—	—	—	4	30.76%			
43	*M.D. Br. V (O. & G)	4	—	4	—	4	—	—	—	—	2	2	—	—	—	—	—	50.00%			
44	*M.D. Br. VI (Pediatrics)	7	—	4	3	7	—	—	—	—	—	—	—	—	2	2	2	28.57%			
45	*M.D. Br. VIII (Pre. & Soci. Med.)	3	1	1	1	2	—	—	—	—	—	—	—	—	—	—	00	00%			
46	*M.S. Br. I (Surgery)	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100%			
47	*M.S. Br. III (Orthopaedics)	10	—	10	—	10	—	—	—	—	1	2	—	—	—	—	2	20.00%			
		1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100%			

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† From 1968 Examination Grades are awarded to the candidates but the results are declared in classes. (i.e. I Class Dist., I Class, II Class and Pass Class)
 * No Class is awarded

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
48	*Dip. in Ophthalmology	1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100%
49	*Dip. in Laryngology & Otology	1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100%
50	*Dip. in Pediatrics	6	—	5	1	6	—	—	—	—	3	—	—	—	1	1	4	66.66%
51	*Dip. in Clinical Pathology	2	—	2	—	2	—	—	—	—	1	—	—	—	—	—	1	50.00%
52	*Dip. in Obstetrics & Gynaecology	6	—	2	4	6	—	—	—	—	—	—	—	—	2	2	2	33.33%
53	*M.Sc. (Medical Subjects)	8	—	7	1	8	—	—	1	2	3	—	—	—	—	—	3	37.5%
54	F.Y. Diploma (C.M.E.)	551	4	543	4	547	—	14	72	99	185	—	—	—	1	1	186	34.00%
55	S.Y. Diploma (C.M.E.)	484	2	475	7	482	—	23	95	117	235	—	—	3	2	5	240	56.07%
56	*I Sem. of S.Y. Dip. (C.M.E.) Extd. Course	123	5	117	1	118	—	—	—	50	50	—	—	—	—	—	50	42.37%
57	II Sem. of S.Y. Dip. (C.M.E.) Extd. Course	52	3	49	—	49	—	—	—	24	24	—	—	—	—	—	24	48.97%
58	*I Sem. of Final Year D.C.E.—Extd. Course	10	1	9	—	9	—	—	—	7	7	—	—	—	—	—	7	77.77%
59	*I Sem. of Final Year D.M.E.—Extd. Course	35	—	35	—	35	—	—	—	23	23	—	—	—	—	—	23	65.71%
60	*I Sem. of Final Year D.E.E.—Extd. Course	18	1	17	—	17	—	—	—	5	5	—	—	—	—	—	5	29.41%
61	II Sem. of Final Year D.C.E.—Extd. Course	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
62	II Sem. of Final Year D.M.E.—Extd. Course	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00%
63	II Sem. of Final Year D.E.E.—Extd. Course	2	1	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00%
64	D.C.E.	87	—	86	1	87	—	8	30	9	47	—	1	—	—	—	48	55.17%
65	D.M.E.	226	8	217	1	218	—	14	52	47	113	—	—	1	1	114	52.29%	
66	*D.M.E. (Under O. TE. 155)	62	4	58	—	58	—	—	—	43	43	—	—	—	—	—	43	74.13%
67	D.E.E.	121	4	116	1	117	—	5	22	27	54	—	—	1	1	55	47.00%	
68	*D.E.E. (Under O. TE. 162)	96	6	90	—	90	—	—	—	53	53	—	—	—	—	—	53	58.88%
69	D.T.C.	51	3	48	—	48	—	—	5	9	14	—	—	—	—	—	14	29.16%
70	D.T.C. (Under O. TE. 184)	97	4	93	—	93	—	—	20	29	49	—	—	—	—	—	49	52.48%
71	D.T.T.	31	1	30	—	30	—	6	12	4	22	—	—	—	—	—	22	73.33%

72	F.Text. (Engg. & Tech.)	104	—	104	—	104	1	2	16	11	30	—	—	—	—	—	30	28.84%
73	S.E. (C.M.E.)—O.C.	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	00	00.00%
74	S.Text. (Engg. & Tech.)	77	—	77	—	77	1	2	23	15	41	—	—	—	—	—	41	53.24%
75	T.E. (C.M.E.)—O.C.	6	—	6	—	6	—	—	—	4	4	—	—	—	—	—	4	66.66%
76	T.Text. (Engg.)	22	—	22	—	22	—	2	11	1	14	—	—	—	—	—	14	63.63%
77	T.Text. (Tech.)	42	—	42	—	42	—	—	22	6	28	—	—	—	—	—	28	66.66%
78	B.E. (Civil)—O.C.	10	—	10	—	10	—	—	2	6	8	—	—	—	—	—	8	80.00%
79	B.E. (Mech.)—O.C.	8	2	6	—	6	—	—	3	1	4	—	—	—	—	—	4	66.66%
80	B.E. (Mech.)—O.C. under O.T.E. 39	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%
81	B.E. (Elect.)—O.C.	12	2	10	—	10	—	—	—	3	5	—	—	—	—	—	5	50.00%
82	B. Text. (Engg.)	32	—	32	—	32	—	2	17	3	22	—	—	—	—	—	22	68.75%
83	B. Text. (Tech.)	18	—	18	—	18	—	3	11	1	15	—	—	—	—	—	15	83.33%
84	*I Sem. of B.E. I (CME Chem. Met.)	133	3	130	—	130	—	—	—	22	22	—	—	—	—	—	22	16.92%
85	II Sem. of B.E. I (CME Chem. Met.)	449	2	445	2	447	12	46	152	8	218	—	—	1	—	1	219	48.99%
86	*I Sem. of B.E. II (CME Chem. Met.)	199	3	195	1	196	—	—	—	88	88	—	—	—	—	—	88	44.89%
87	II Sem. of B.E. II (CME Chem. Met.)	456	1	453	2	455	2	20	161	78	261	—	—	—	—	—	261	57.36%
88	*I Sem. of B.E. III (CME Chem.)	54	1	53	—	53	—	—	—	17	17	—	—	—	—	—	17	32.07%
89	II Sem. of B.E. III (CME Chem.)	386	1	382	3	385	25	66	182	39	312	—	—	2	—	2	314	81.55%
90	*I Sem. of B.E. IV (CME Chem.)	37	—	37	—	37	—	—	—	18	18	—	—	—	—	—	18	48.64%
91	II Sem. of B.E. IV (CME Chem.)	304	—	303	1	304	17	60	162	18	257	—	1	—	—	1	258	84.86%
92	*I Sem. of B.E. V (Civil)	4	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%
93	*I Sem. of B.E. V (Mech.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
94	*I Sem. of B.E. V (Chem.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
95	II Sem. of B.E. V (Civil)	32	—	32	—	32	2	5	24	—	31	—	—	—	—	—	31	96.87%

* No Class is awarded

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
96	II Sem. of B.E. V (Mech.)	14	—	14	—	14	2	8	3	—	13	—	—	—	—	—	13	92.82%
97	II Sem. of B.E. V (Elect.)	6	—	6	—	6	1	1	2	1	5	—	—	—	—	—	5	83.33%
98	II Sem. of B.E. V (Chem.)	37	—	37	—	37	7	15	13	—	35	—	—	—	—	—	35	94.59%
99	*I Sem. of B.E. V (Civil) Special	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	0	00.00%
100	*I Sem. of B.E. V (Mech.) Special	5	—	5	—	5	—	—	—	—	—	—	—	—	—	—	3	60.00%
101	*I Sem. of B.E. V (Elect.) Special	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	2	100%
102	II Sem. of B.E. V (Civil) Special	9	—	9	—	9	1	4	3	—	7	—	—	—	—	—	7	77.77%
103	II Sem. of B.E. V (Mech) Special	10	1	9	—	9	1	4	3	—	8	—	—	—	—	—	8	88.88%
104	II Sem. of B.E. V (Elect.) Special	8	—	8	—	8	—	—	—	—	6	—	—	—	—	—	6	75.00%
105	B.E. IV (Civil) — Special	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	—	00.00%
106	*I Sem. of B.E. I (Electronics)	3	—	3	—	3	—	—	—	—	1	—	—	—	—	—	1	33.33%
107	II Sem. of B.E. I (Electronics)	21	—	21	—	21	—	—	—	—	11	—	—	—	—	—	11	52.38%
108	*I Sem. of B.E. II (Electronics)	3	—	3	—	3	—	—	—	—	3	—	—	—	—	—	3	100%
109	II Sem. of B.E. II (Electronics)	13	—	13	—	13	1	1	8	3	13	—	—	—	—	—	13	100%
110	*I Sem. of B.E. III (Electronics)	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%
111	II Sem. of B.E. III (Electronics)	5	—	5	—	5	—	—	—	—	5	—	—	—	—	—	5	100%
112	*M.E. (Civil) — Part I	26	1	24	1	25	—	—	—	—	16	—	—	—	—	1	17	68.00%
113	*M.E. (Mech.) — Part I	13	1	11	1	12	—	—	—	—	6	—	—	—	—	1	7	58.33%
114	*M.E. (Elect.) — Part I	12	1	11	—	11	—	—	—	—	10	—	—	—	—	—	10	90.90%
115	*M.E. (Civil) — Part II	7	—	7	—	7	—	—	—	—	7	—	—	—	—	—	7	100%
116	*M.E. (Mech.) — Part II	3	—	3	—	3	—	—	—	—	2	—	—	—	—	—	2	66.66%
117	*M.E. (Elect.) — Part II	2	—	2	—	2	—	—	—	—	2	—	—	—	—	—	2	100%
118	*M.E. (Civil) — Part III	17	—	17	—	17	—	—	—	—	17	—	—	—	—	—	17	100%
119	*M.E. (Mech.) — Part III	11	—	11	—	11	—	—	—	—	10	—	—	—	—	—	10	90.90%
120	*M.E. (Elect.) — Part III	5	—	5	—	5	—	—	—	—	3	—	—	—	—	—	3	60.00%
121	M.E. (Civil) — Part IV	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%
122	M.E. (Mech.) — Part IV	4	—	4	—	4	—	—	—	—	4	—	—	—	—	—	4	100%
123	*P.G. Dip. in Ref. & Air Conditioning Part-I	8	—	8	—	8	—	—	—	—	8	—	—	—	—	—	8	100%
124	P.G. Dip. in Ref. & Air Conditioning Part - II	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%
125	Post Diploma Diploma in Ref. & Air Cond.	5	—	5	—	5	—	3	2	—	5	—	—	—	—	—	5	100%

	Prep. Course	Exam. in Engg. (CME) for Dip. passed students.	43	1	42	—	42	1	1	16	12	30	—	—	—	—	30	71.42%		
126	III Yr. B.Arch.		72	—	65	7	72	2	1	11	10	24	—	—	2	1	3	27	37.5%	
127	B.Arch.		63	4	52	7	59	2	1	12	6	21	—	—	1	1	2	23	38.97%	
128	I LL.B. (Old Course)		78	20	53	5	58	—	—	9	29	38	—	—	—	4	4	42	72.41%	
129	I LL.B. (Academic) (New Course)		132	25	90	17	107	—	1	32	2	35	—	—	8	—	8	43	40.10%	
130	II LL.B.		168	17	139	12	151	—	—	64	24	88	—	—	7	3	10	98	64.90%	
131	*D.L.P.		66	8	51	7	58	—	—	—	27	27	—	—	—	2	2	29	50.00%	
132	*D.T.P.		49	7	39	3	42	—	—	—	14	14	—	—	—	—	—	14	33.03%	
133	LL.M.		15	—	14	1	15	—	—	4	—	4	—	—	—	—	—	4	26.66%	
134	M.A. (Fine) — Painting		2	—	2	—	2	—	2	—	—	2	—	—	—	—	—	2	100%	
135	M.A. (Fine) — Sculpture		1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%	
136	M.A. (Fine) — Appl. Arts		1	—	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100%	
137	B.A. (Fine) — Painting		7	—	5	2	7	—	—	2	1	3	—	—	—	1	1	2	5	71.42%
138	B.A. (Fine) — Sculpture		3	—	3	—	3	—	1	2	—	3	—	—	—	—	—	3	100%	
139	B.A. (Fine) — Appl. Arts		4	—	2	2	4	—	1	1	—	2	—	—	1	1	—	2	4	100%
140	Post-Dip. in Fine Arts — Painting		5	—	5	—	5	1	4	—	—	5	—	—	—	—	—	5	100%	
141	Post-Dip. in Fine Arts — Appl. Arts		2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	0	00.00%	
142	Diploma in Fine Arts — Painting		5	—	5	—	5	—	3	—	1	4	—	—	—	—	—	4	80.00%	
143	Dip. in Fine Arts — Applied Arts		17	—	17	—	17	—	6	6	—	12	—	—	—	—	—	12	70.58%	
144	*P. G. Diploma in Museology		6	—	3	3	6	—	—	—	3	3	—	—	—	3	3	6	100%	
145	M.Mus.		3	—	3	—	3	—	2	—	—	2	—	—	—	—	—	2	66.66%	
146	B.Mus.		8	—	5	3	8	—	—	2	2	4	—	—	1	1	—	3	7	87.5%
147	Dip. in Music		34	1	15	18	33	—	6	2	3	11	—	—	2	11	4	17	28	84.84%
148	Dip. in Dance		1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	1	100%
149	Dip. in Dramatics		7	1	6	—	6	—	1	2	—	3	—	—	—	—	—	3	50.00%	
150	Dip. in Home		118	1	—	117	117	—	—	—	—	—	—	—	+9	%76	£23	108	92.3%	
151	B.Sc. (Home)		17	—	—	17	17	—	—	—	—	—	—	—	+8	%4	—	12	12	70.58%
152	M.Sc. (Home)		2	—	—	2	2	—	—	—	—	—	—	—	—	%1	—	1	1	50.00%
153	Post-graduate Diploma in Nursery School Education		33	—	19	14	33	—	+1	4%	£14	19	—	—	+3	%6	£5	14	33	100%
154	*Ph.D. (Science)		16	—	15	1	16	—	—	—	15	15	—	—	—	—	1	1	16	100%
155	*Ph.D. (Education)		3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	—	3	100%
156	*Ph.D. (Technology)		2	—	2	—	2	—	—	—	—	2	—	—	—	—	—	—	2	100%
157	*No Class is awarded																			

* No Class is awarded + Passed in 'A' Grade % Passed in 'B' Grade £ Passed in 'C' Grade

Result of the University Examinations August-October-November, 1968

Sr. No.	Examination	Number Appeared						Number Passed												Grand Total	Percentage of Pass
		No. Regd.	No. Absent	Men		Women	Total	Men						Women							
				I Class Dist.	I Class			II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
1	F.Y.B.A.	342	15	169	158	327	—	—	1	78	79	—	—	—	91	91	170	51.98%			
2	*S.Y.B.A.	136	6	55	75	130	—	—	—	36	36	—	—	—	55	55	91	70.00%			
3	T.Y.B.A.	123	11	81	31	112	—	—	2	50	52	—	—	1	21	22	74	66.07%			
4	F.Y.B.Sc.	140	10	103	27	130	—	1	2	66	69	—	—	—	17	17	86	66.15%			
5	*S.Y.B.Sc.	127	10	103	14	117	—	—	—	64	64	—	—	—	8	8	72	61.53%			
6	T.Y.B.Sc.	80	8	61	11	72	—	—	—	28	40	—	—	4	5	9	49	68.05%			
7	F.Y.B.Com.	466	30	394	42	436	—	—	1	205	206	—	—	—	30	30	236	54.12%			
8	*S.Y.B.Com.	203	27	171	5	176	—	—	—	61	61	—	—	—	1	1	62	35.22%			
9	B.Com.	118	13	101	4	105	—	—	2	71	73	—	—	—	3	3	76	72.38%			
10	*B.Com. (U.O.Com. 27)	2	1	1	—	1	—	—	—	—	—	—	—	—	—	—	00	00.00%			
11	*B.Com. (U.O.Com. 25)	7	1	6	—	6	—	—	—	1	1	—	—	—	—	—	1	16.66%			
12	*I M.B.B.S.	123	1	98	24	122	—	—	—	64	64	—	—	—	23	23	87	71.31%			
13	*I M.B.B.S.	36	—	35	1	36	—	—	—	34	34	—	—	—	1	1	35	97.22%			
14	*II M.B.B.S.	44	—	38	6	44	—	—	—	24	24	—	—	—	6	6	30	68.18%			
15	*III M.B.B.S.	126	—	97	29	126	—	—	—	55	55	—	—	—	19	19	74	58.73%			
16	*M.D. (Br. I)—Medicine	12	2	10	—	10	—	—	—	5	5	—	—	—	—	—	5	50.00%			
17	*M.D. (Br. II)—Pathology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%			
18	*M.D. (Br. III)—Pharmacology	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%			

19	*M.D. (Br. V)—Obs. & Gyn.	5	—	3	2	5	—	—	—	—	2	2	—	—	—	1	1	3	60.00%
20	*M.D. (Br. VI)—Pediatrics	4	1	3	—	3	—	—	—	—	1	1	—	—	—	—	—	1	33.33%
21	*M.D. (Br. VIII)—Pre. and Social Medicine	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
22	*M.S. (Br. I)—Surgery	14	1	13	—	13	—	—	—	—	@6	@6	—	—	—	—	—	6	46.14%
23	M.Sc. (In Medical Subjects)	10	—	9	1	10	—	1	—	—	2	3	—	—	—	1	1	4	40.00%
24	*D.M.R.—Part-I	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	1	100%
25	*Diploma in Pediatrics	2	—	2	—	2	—	—	—	—	1	1	—	—	—	—	—	1	50.00%
26	*Diploma in Venereal Diseases	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00	00.00%
27	*Diploma in Clinical Pathology	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	1	100%
28	*Diploma in Tuberculous Diseases	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00	00.00%
29	*Diploma in Gynaecology and Obstetrics	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00	00.00%
30	F.Y. Diploma (CME)	300	5	292	3	295	—	—	—	—	103	103	—	—	—	1	1	104	35.25%
31	S.Y. Diploma (CME)	217	7	208	2	210	—	—	—	—	86	86	—	—	—	1	1	87	41.42%
32	*I Sem. of S.Y.Dip. (CME)—Extended Course	68	3	65	—	65	—	—	—	—	33	33	—	—	—	—	—	33	50.76%
33	II Sem. of S.Y.Dip. (CME)—Extended Course	103	4	99	—	99	—	—	3	3	31	37	—	—	—	—	—	37	37.37%
34	*I Sem. of D.C.E. Extd. Course	3	—	3	—	3	—	—	—	—	2	2	—	—	—	—	—	2	66.66%
35	*I Sem. of D.M.E. Extd. Course	11	1	10	—	10	—	—	—	—	8	8	—	—	—	—	—	8	80.00%
36	*I Sem. of D.E.E. Extd. Course	13	2	11	—	11	—	—	—	—	7	7	—	—	—	—	—	7	63.63%
37	II Sem. of D.C.E. Extd. Course	9	—	9	—	9	—	—	1	3	4	8	—	—	—	—	—	8	88.88%
38	II Sem. of D.M.E. Extd. Course	32	—	32	—	32	—	—	2	17	9	28	—	—	—	—	—	28	87.5%
39	II Sem. of D.E.E. Extd. Course	18	—	18	—	18	—	—	—	2	8	10	—	—	—	—	—	10	55.55%
40	Dip. in Civil Engg.	38	1	36	1	37	—	—	2	12	6	20	—	—	—	—	—	20	54.05%
41	Dip. in Mechanical Engg.	99	4	95	—	95	—	—	1	14	39	54	—	—	—	—	—	54	56.84%

* No Class is awarded. † Examination held in September, 1968. ‡ Examination held in December, 1968.

@ Including One Passed with Distinction.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
42	*Dip. in Mechanical Engg. (Under O. TE. 155)	10	3	7	—	7	—	—	—	1	1	—	—	—	—	—	1	14.28%
43	Dip. in Electrical Engg.	58	5	52	1	53	—	—	3	19	22	—	—	—	—	—	22	41.69%
44	*Dip. in Electrical Engg. (Under O. TE. 162)	33	8	25	—	25	—	—	—	9	9	—	—	—	—	—	9	36.00%
45	Diploma in Textile Chemistry	27	1	26	—	26	—	—	2	7	9	—	—	—	—	—	9	34.61%
46	Diploma in Textile Chemistry (Under O. TE. 184)	33	4	29	—	29	—	—	2	15	17	—	—	—	—	—	17	58.62%
47	Diploma in Textile Technology	8	—	8	—	8	—	—	1	5	6	—	—	—	—	—	6	75.00%
48	F. Text. (Engg. and Tech.)	66	1	65	—	65	—	—	—	39	39	—	—	—	—	—	39	60.00%
49	S.E. (CME)—Old Course	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
50	S.Text. (Engg. and Tech.)	36	—	36	—	36	—	—	—	20	20	—	—	—	—	—	20	55.55%
51	T.E. (CME)—Old Course	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
52	T.Text. (Engg.)	7	—	7	—	7	—	—	—	4	4	—	—	—	—	—	4	57.14%
53	T.Text. (Tech.)	16	—	16	—	16	—	—	—	12	12	—	—	—	—	—	12	75.00%
54	B.E. (Civil)—Old Course	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
55	B.E. (Mechanical)—Old Course	4	2	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
56	B.E. (Electrical)—Old Course	7	1	6	—	6	—	—	—	1	1	—	—	—	—	—	1	16.66%
57	B.Text. (Engg.)	10	—	10	—	10	—	—	8	1	9	—	—	—	—	—	9	90.00%
58	B.Text. (Tech.)	3	—	3	—	3	—	—	1	—	1	—	—	—	—	—	1	33.33%
59	*I Sem. of B.E. I (CME Chem. Met.)	437	1	434	2	436	—	—	—	334	334	—	—	—	2	2	336	77.06%
60	II Sem. of B.E. I (CME Chem. Met.)	200	2	197	1	198	—	—	—	135	135	—	—	—	—	—	135	68.18%
61	*I Sem. of B.E. II (CME Chem. Met.)	427	2	421	4	425	—	—	—	279	279	—	—	—	3	3	282	66.35%
62	II Sem. of B.E. II (CME Chem. Met.)	164	3	159	2	161	—	—	—	88	88	—	—	—	2	2	90	55.90%
63	I Sem. of B.E. III (CME Chem. Met.)	398	—	397	1	398	—	—	—	287	287	—	—	—	1	1	288	72.36%
64	II Sem. of B.E. III (CME Chem.)	55	1	54	—	54	—	—	—	33	33	—	—	—	—	—	33	61.11%

65	*I Sem. of B.E. IV (CME Chem.)	377	—	374	3	377	—	—	—	319	319	—	—	—	3	3	322	85.41%
66	II Sem. of B.E. IV (CME Chem.)	39	1	38	—	38	—	—	—	21	21	—	—	—	—	—	21	55.26%
67	B.E. IV (Civil)—Special	4	—	4	—	4	—	—	—	2	2	—	—	—	—	—	2	50.00%
68	*I Sem. of Final B.E. (Civil)	86	3	82	1	83	—	—	—	76	76	—	—	—	1	1	77	92.77%
69	*I Sem. of Final B.E. (Mech.)	115	—	115	—	115	—	—	—	114	114	—	—	—	—	—	114	99.13%
70	*I Sem. of Final B.E. (Elect.)	53	1	52	—	52	—	—	—	43	43	—	—	—	—	—	43	86.53%
71	*I Sem. of Final B.E. (Chem.)	37	3	34	—	34	—	—	—	29	29	—	—	—	—	—	29	85.29%
72	II Sem. of Final B.E. (Civil)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
73	II Sem. of Final B.E. (Mech.)	1	—	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100%
74	II Sem. of Final B.E. (Elect.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
75	II Sem. of Final B.E. (Chem.)	2	—	2	—	2	—	—	1	—	1	—	—	—	—	—	1	50.00%
76	*I Sem. of B.E. V (Civil)—Spl.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
77	*I Sem. of B.E. V (Mech.)—Spl.	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
78	*I Sem. of B.E. V (Elect.)—Spl.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
79	II Sem. of B.E. V (Civil)—Spl.	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
80	II Sem. of B.E. V (Mech.)—Spl.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
81	II Sem. of B.E. V (Elect.)—Spl.	2	—	2	—	2	—	—	1	—	1	—	—	—	—	—	2	100%
82	I Sem. of B.E. I (Electronics)	25	2	23	—	23	—	—	—	16	16	—	—	—	—	—	16	69.56%
83	II Sem. of B.E. I (Electronics)	10	—	10	—	10	—	—	—	7	7	—	—	—	—	—	7	70.00%
84	I Sem. of B.E. II (Electronics)	18	—	18	—	18	—	—	—	15	15	—	—	—	—	—	15	83.33%
85	I Sem. of B.E. III (Electronics)	13	—	13	—	13	—	—	—	9	9	—	—	—	—	—	9	69.23%
86	*M.E. (Civil)—Part I	8	1	7	—	7	—	—	—	5	5	—	—	—	—	—	5	71.42%
87	*M.E. (Mech.)—Part I	4	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%
88	*M.E. (Elect.)—Part I	3	1	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%
89	*M.E. (Civil)—Part II	23	—	23	—	23	—	—	—	20	20	—	—	—	—	—	20	86.95%
90	*M.E. (Mech.)—Part II	11	—	11	—	11	—	—	—	8	8	—	—	—	—	—	8	72.72%
91	*M.E. (Elect.)—Part II	11	7	4	—	4	—	—	—	4	4	—	—	—	—	—	4	100%
92	*M.E. (Mech.)—Part III	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
93	*M.E. (Elect.)—Part III	7	—	7	—	7	—	—	—	2	2	—	—	—	—	—	2	100%
94	@M.E. (Civil)—Part IV	4	—	4	—	4	—	—	2	—	2	—	—	—	—	—	2	100%
95	@M.E. (Mech.)—Part IV	4	—	4	—	4	—	—	3	1	4	—	—	—	—	—	4	100%
96	@M.E. (Elect.)—Part IV	7	—	7	—	7	—	—	3	4	7	—	—	—	—	—	7	100%

* No Class is award.

@ Examination held in October 1968.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
97	†M.E. (Civil)—Part IV	6	—	6	—	6	—	2	4	—	6	—	—	—	—	—	6	100%
98	†M.E. (Mech.)—Part IV	8	1	7	—	7	1	4	2	—	7	—	—	—	—	—	7	100%
99	†M.E. (Elect.)—Part IV	1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100%
100	P.G. Dip. in Ref. & Air Conditioning—Part II	6	—	6	—	6	1	3	2	—	6	—	—	—	—	—	6	100%
101	*P.D. Dip. in Ref. & Air Conditioning—Part I	6	—	6	—	6	—	—	—	6	6	—	—	—	—	—	6	100%
102	Prep. Exam. for Dip. passed students in (CME) Engg.	12	1	11	—	11	—	—	—	8	8	—	—	—	—	—	8	72.72%
103	Third Year B.Arch.	43	1	38	4	42	—	—	—	20	20	—	—	—	3	3	23	54.76%
104	B.Arch.	39	4	30	5	35	—	1	1	18	20	—	1	—	3	4	24	68.57%
105	I. LL.B. (Academic)—N.C.	45	11	32	2	34	—	—	3	19	22	—	—	—	2	2	24	70.58%
106	I LL.B. (Old Course)	23	9	14	—	14	—	—	—	3	3	—	—	—	—	—	3	21.42%
107	II LL.B.	63	12	48	3	51	—	1	10	22	33	—	—	—	2	2	35	68.62%
108	M.Sc. (Home)	15	2	—	13	13	—	—	—	—	—	—	§5	†8	—	13	100%	
109	B.Sc. (Home)	13	—	—	13	13	—	—	—	—	—	—	—	†2	£5	7	53.86%	
110	M.S.W.	7	—	6	1	7	—	—	—	£4	4	—	—	—	£1	£1	5	71.31%
111	*Ph.D. (Arts)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%
112	*Ph.D. (Science)	6	—	6	—	6	—	—	—	6	6	—	—	—	—	—	6	100%
113	*Ph.D. (Edu. & Psy.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%

* No Class is awarded.

† Examination held in August 1968.

§ Passed in 'A' Grade.

† Passed in 'B' Grade.

£ Passed in 'C' Grade.

Appendix VIII

CAPITAL ACCOUNTS

I—University General Fund (Subject to Audit)

1968-69

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1968	7,09,958-17		Building Works	3,28,930-68	
Interest	1,959-00		Purchase of Machinery for the Press	17,998-58	
Loan for Construction of Hostels for Engineering Students	6,00,000-00		Purchase of Furniture	13,680-00	
Loan from the Bank of Baroda Ltd. for Construction of a Building for the Bank near the Sports Pavilion			Closing Balance	13,01,307-91	
Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	25,000-00				
Donation from Padra Taluka Uchha Shikshana Samiti for College at Padra	3,00,000-00				
	25,000-00				

Total : 16,61,917-17

Total : 16,61,917-17

II—Ayurvedic Research Fund

(Subject to Audit)

1968-69

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1968	11,52,558-99		Amount to be transferred for the excess		
Interest	41,999-74		recurring expenditure of the Sheth U. P.		
			Ayurvedic Research Unit over and above		
			State Government Grant		27,912-06
			Closing Balance		11,66,646-67
				Total :	11,94,558-73

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III—Post-graduate Instruction and Research Fund

(Subject to Audit)

1968-69

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1968	45,31,464-14		Expenditure on Research etc.		
Interest	1,45,032-50		(i) Research Grants		67,192-08
			(ii) Research Assistants		45,387-09
			(iii) Scholarships		5,700-00
			Closing Balance		45,58,217-47
				Total :	46,76,496-64

Appendix IX

REVENUE ACCOUNTS

(Subject to Audit)

1968-69

Sr. No.	Particulars	Receipts Rs.	P.	Sr. No.	Particulars	Disbursements Rs.	P.
1	2	3		1	2	3	
I	Tuition Fees and Other Income from Faculties and Institutions	33,69,852-23		I	University General Administration	5,10,623-26	
(A) Faculties :				II	Examination Charges	6,94,924-10	
(a) Faculty of Arts		4,66,102-00		III	Deadstock and Repairs	3,662-01	
(b) Faculty of Science		7,94,393-77		IV	Publications	27,125-83	
(c) Faculty of Education and Psychology		1,63,763-00		V	Information and Publicity	6,029-46	
(d) Faculty of Commerce		5,05,576-79		VI	Remuneration to Lecturers	1,410-20	
(e) (i) Faculty of Technology and Engineering				VII	Travelling Allowance	37,279-76	
(ii) Diploma Courses (Polytechnic)				VIII	Printing and Stationery	46,428-58	
(f) Faculty of Law		7,17,569-69		IX	Maintenance of Buildings and Roads and Temporary Establishment for Capital Works (including residential quarters and N.C.C. Buildings)		
(g) Faculty of Fine Arts		1,87,606-90		X	Maintenance of Gardens	70,426-85	
(h) Faculty of Home Science		96,867-00		XI	Municipal Taxes and Law Charges	35,246-15	
(i) Faculty of Social Work		40,178-46		XII	(a) University Contribution to Provident Fund	26,625-38	
		2,18,512-01		(b) Contribution to Gratuity Fund		19,256-38	
		39,378-19		XIII	Miscellaneous	11,719-00	
				XIV	Health Centre	4,53,231-91	
						55,254-25	

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1	2	3	1	2	3
	(B) Institutions :				
	(1) College of Indian Music, Dance and Dramatics		XV	University Guest House	15,153-90
	(2) Preparatory Unit—Arts and Commerce	40,163-11	XVI	Expenditure of the University Grants Commission Unit (Over Rs. 6,000/- U.G.C. Grant)	9,125-18
	(3) Preparatory Unit—Science	79-50	XVII	University Library	3,23,443-15
	(4) Sanskrit Mahavidyalaya	2,589-20	XVIII	Physical Education Department	1,68,005-86
	(5) Shri M. K. Amin Arts and Science College and College of Commerce, Padra	31-91	XIX	Faculties and Institutions	88,27,980-21
			(A) Faculties :		
II	Examination Fees	97,040-70	(a)	Faculty of Arts	9,83,613-34
III	Other Fees	8,83,458-85	(b)	Faculty of Science	20,69,146-74
IV	Income from Publications	3,25,997-70	(c)	Faculty of Education and Psychology	5,87,517-74
V-A	(1) Grant from the State Government (Block Grant)	27,386-77	(d)	Faculty of Commerce	2,96,735-54
	(2) Grant from the State Government (Additional Block Grant) for Expenditure on Development Plans, Schemes which have completed 5 years or the stipulated period and hence become 100% liability of the State Government	42,81,628-00	(e)	(i) Faculty of Technology and Engineering	17,68,122-58
				(ii) Diploma Courses (Polytechnic)	7,73,108-17
			(f)	Faculty of Law	99,370-75
			(g)	Faculty of Fine Arts	4,56,241-66
			(h)	Faculty of Home Science	6,40,365-66
			(i)	Faculty of Social Work	2,12,924-96
		8,27,530-00			

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1	2	3	1	2	3
	(B) Institutions :				
	(1) Oriental Institute		(1)	Oriental Institute	1,51,869-10
	(2) College of Indian Music, Dance and Dramatics		(2)	College of Indian Music, Dance and Dramatics	3,63,484-33
	(3) Preparatory Unit—Arts and Commerce	6,33,680-00	(3)	Preparatory Unit—Arts and Commerce	49,017-92
	(4) Preparatory Unit—Science	2,70,805-00	(4)	Preparatory Unit—Science	41,444-30
	(5) Sanskrit Mahavidyalaya		(5)	Sanskrit Mahavidyalaya	97,792-85
	(6) Shri M. K. Amin Arts and Science College and College of Commerce, Padra		(6)	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	2,37,224-57
			XX	M. S. University of Baroda Press (Sadhana Press)	3,09,396-41
			XXI	M. S. University Stationery Unit	1,61,283-99
			XXII	M. S. University Publication Sales Unit	15,201-66
			XXIII	Halls of Residence for Students	6,23,151-08
			XXIV	Sheth U.P. Ayurvedic Research Unit	60,099-46
		1,00,000-00			
V-B	Grant from the University Grants Commission and the State Government towards the increase in salaries of the teaching staff (Humanities, Sciences and Social Sciences) due to Grade Revision (Third Five Year Plan Scheme)				
	(a) Grant from the University Grants Commission				
	(b) Grant from the State Government				
V-C	100% Grant from the University Grants Commission for Revision of Salary Scales of University Teachers in Technology and Engineering subjects as per A. I. C. T. E. Scales upto 7 years				

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1	2	3	1	2	3
			XXV	Net expenditure on Development Scheme which have completed Five Years (Chargeable to 100% State Government Grant from 1-4-1967 and onwards excluding expenditure on revision of Salary Scales)	3,02,340-93
VI	Interest on Cash Balances	8,828-14			
VII	Income from Halls of Residence for Students	4,62,547-50			
VIII	Income from use and occupation of University Quarters and Bungalows including Furniture Rent	2,60,805-77			
IX	Income from University Guest House	3,511-00			
X	Miscellaneous Income	2,27,859-90			
XI	Income from M. S. University of Baroda Press (Sadhana Press)	3,09,075-01			
XII	Income from M. S. University Stationery Unit	1,63,438-06			
XIII	Income from University Health Centre	10,557-40			
XIV	Sheth U. P. Ayurvedic Research Unit	60,099-46			
	Total Receipts :	1,22,27,060-79			
XV	Excess of Disbursements Over Receipts i.e. Deficit	5,87,364-16			
	Grand Total :	1,28,14,424-95			Grand Total : 1,28,14,424-95

Grants on Development and Research Schemes 1968-69

Sr.	Name of the Agency	Amount of Grant Rs. P.
1.	University Grants Commission	24,26,342-65
2.	Ministry of Education, Government of India	2,96,303-43
3.	Ministry of Health, Government of India	63,400-00
4.	Ministry of Defence, Research and Development Organisation, Government of India	11,978-30
5.	Central Social Welfare Board	19,225-00
6.	Planning Commission, Government of India	1,651-84
7.	Council of Scientific and Industrial Research, New Delhi	46,210-00
8.	Department of Science Education, National Council of Educational Research and Training	32,000-00
9.	Government of Gujarat (Matching Grant)	6,29,200-00
10.	Government of Gujarat (Research and other Schemes)	1,01,773-67
11.	Director of Cottage Industries, Government of India	53,708-13
12.	UNICEF—Nutrition Programme	23,207-92
13.	United States Departments of Agriculture and Health, New Delhi (Am PL - 480 Programme)	6,06,876-00
14.	USAID	25,000-00
15.	Director, Wheat Associate Project	8,000-00
16.	National Dairy Development Project	2,400-00
	Total	43,47,276-94

THE MAHARAJA SAYAJIRAO
Statement of students

Faculty	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Shri Maharshi Aurobindo Hall	Shri Sardar Patel Hall	Professor T. K. Gajjar Hall
1	2	3	4	5	6
Preparatory Science	131	18	8	11	18
Preparatory Arts and Commerce	—	3	2	3	7
Arts	—	5	2	3	8
Commerce	—	19	8	12	28
Science	6	20	15	61	31
Education and Psychology	1	1	—	2	1
Technology and Engineering	26	98	136	79	103
Polytechnic	1	4	7	—	2
Medicine	13	18	17	15	42
Social Work	—	—	—	2	1
Fine Arts	2	6	2	5	3
Music	—	—	—	1	1
Law	—	1	1	1	—
Home Science	—	—	—	—	—
Grand Total	180	193	198	195	245

UNIVERSITY HALLS OF RESIDENCE, BARODA
admitted during 1968-69

Dr. Jivraj Mehta Hall	Shri Dadabhai Naoroji Hall	Shri Rabindra-nath Tagore Hall	Shri M. Vish-vesariya Hall	Siddharaj Jaisinh Hall	Total Men Students	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandita Gargi Hall	Kasturba Gandhi Hall	Total Women Students	Grand Total
7	8	9	10	11	12	13	14	15	16	17	18
2	9	16	13	15	241	5	9	1	19	34	275
10	1	8	13	7	54	19	10	4	7	40	94
5	10	8	14	10	65	52	38	23	24	137	202
21	5	38	36	36	203	18	10	11	4	43	246
41	21	15	27	27	264	29	16	32	11	88	352
—	—	—	—	—	5	15	5	2	—	22	27
74	18	74	127	65	800	6	13	4	3	26	826
3	1	49	31	32	130	—	—	—	5	5	135
35	7	19	27	27	220	13	13	15	—	41	261
1	3	1	4	7	19	5	1	7	—	13	32
7	2	—	8	—	35	17	12	3	—	32	67
1	—	—	2	—	5	7	1	16	—	24	29
1	1	—	1	2	8	1	—	—	—	1	9
1	—	—	1	—	2	89	77	84	30	280	282
202	78	228	304	228	2051	276	205	202	103	786	2837