

UNIVERSITY OF MADRAS

NINETY-NINTH ANNUAL REPORT FOR 1955

January 1956

I. INTRODUCTION

1. The Syndicate presents to the Senate under Section 20 of the Madras University Act of 1923, as amended in 1929, the report of the working and progress of the University for the year ending 31st December 1955.

2. The activities of the University are detailed under the appropriate headings, but special mention may be made of the following :

(i) The Academic Council and the Senate having adopted the general recommendations of the Secondary Education Commission regarding the courses of study in the University, Special Committees were appointed to consider the details of the Pre-University and the three-year degree courses, which were finally referred to the Boards of Studies in the various subjects. Consequent on the recommendations of these bodies, Ordinances were framed for the Pre-University Course and draft Regulations were formulated for the three-year degree course.

(ii) The Institution of a Diploma Course in Business Management and the establishment of a Department of Business Management in the University is yet another addition to the several departments of study and research established in this University.

(iii) The Senate accepted the recommendation of the Syndicate that a General Inspection Commission be appointed during the year to inspect and report on the condition of colleges attached to the University of Madras. In pursuance of this recommendation, the Syndicate appointed a General Inspection Commission to inspect and report on the conditions of Colleges. During the year, 13 colleges were inspected. The General Inspection Commission appointed to inspect the Medical Colleges attached to the University has visited the three medical colleges in the University and formulated its report. It is expected that the inspection of the remaining Colleges will be completed in 1956 and the report of the General Inspection Commission will be presented to the Senate in due course.

(iv) Another important item which may be mentioned as being significant is the decision of the Syndicate and the Senate to celebrate the Centenary of the University in January 1957. The first step in this direction was taken on the 11th of January 1956 when a Public meeting was convened with the Hon'ble Chief Justice of Madras in the Chair. At this meeting which was attended by a large and representative gathering of members of the University authorities, Judges of the High Court, Heads of Departments and members of the teaching staff of colleges, important resolutions were adopted about the celebrations. Before the next report is presented, it is hoped that the Centenary will have been celebrated in a manner befitting the occasion.

II. PERSONNEL

3. **Chancellor** : Shri Sri Prakasa, B.A., LL.B. (Cantab.), Barrister-at-Law, Governor of Madras, continued as Chancellor of the University.

4. **Pro-Chancellor** : Sri C. Subramaniam, B.A., B.L., M.L.A., Minister for Education, Madras State,

continued as Pro-Chancellor of the University during the year.

5. **Vice-Chancellor :** Lt.-Col. Sir A. Lakshmanaswami Mudaliar continued as Vice-Chancellor of the University. Lt.-Col. Sir A. Lakshmanaswami Mudaliar was deputed to attend the 8th World Health Assembly held at Mexico as Leader of the Indian Delegation. He attended the meeting of the Executive Board of the UNESCO at Paris and at Montivideo. During his absence, a Committee of Conveners of Syndicate Committees with the Rev. L. D. Murphy, S.J., as Convener, discharged the duties of the Vice-Chancellor.

6. **Registrar :** Sri R. Ravi Varma, M.A. (Lond.), continued as Registrar.

7. **Deputy Registrar :** Sri D. Sivasubrahmaniam Mudaliar, M.R.C.S., L.R.C.P., continued as Deputy Registrar.

8. Sri D. Narayana Ayyar, Special Officer on contract for the organisation of records and the preparation of the Office Manual retired after completion of the period of contract.

III. UNIVERSITY AUTHORITIES

9. **The Senate :** The Senate met twice during the year, the annual meeting was held on the 15th March 1955 and the ordinary meeting on the 27th October 1955. The average attendance at these meetings was 76 per cent.

10. Two Convocations were held during the year. The main Convocation at which the Chancellor of the University presided was held on the 18th August 1955 with a supplemental session on the succeeding day.

A supplemental Convocation was held on the 16th February 1955. A special meeting of the Senate was held on the 27th October 1955 to confer diplomas and titles.

11. **Syndicate :** There were 12 ordinary meetings and 2 special meetings of the Syndicate during the year. Certain items of business were also transacted in circulation as usual.

12. **The Academic Council :** The Academic Council met on the 17th February 1955 and on the 15th September 1955, the average attendance at meetings being 81 per cent.

13. **The Standing Committee of the Academic Council :** The Standing Committee of the Academic Council met four times during the year on the 20th January, 12th March, 29th April and 16th August 1955.

14. **Boards of Studies :** The Boards of Studies met late during the year to consider details for the re-organised courses of studies (Pre-University and three-year degree courses). Special Committees of the Boards of Studies drafted the details for the Pre-University and three-year degree courses.

15. **Faculties :** New members of the Academic Council were assigned to the various Faculties by the Academic Council. The following were elected Presidents of the Faculties during the year :

Faculty of Science : Dr. S. G. Manavala Ramanujam.

Faculty of Oriental Learning : Sri T. M. Narayanaswami Pillai,

16. The Syndicate reports with regret the demise of the following persons who were former members of one or other of the University authorities :—

Dr. M. A. Govinda Rao.

The Rev. A. G. Hogg.

Sri K. J. Joseph.

Sri R. Swaminathan.

Sri V. Venkatarama Iyer.

Sri S. V. Subbiah.

Sri Devaraj G. Paul.

Sri N. R. Kedari Rao.

Sri C. K. Krishnaswami Pillai.

Dr. B. V. Narayanaswami Naidu.

Sri K. A. Ibrahim.

Sri C. M. Kothari.

The Rev. Sathia Samuel.

Sri S. A. Shafee Ahmed.

Sri Rao Sahib G. Gurubatham.

Appropriate references were made to the demise of these gentlemen at the meetings of the Syndicate, Senate and the Academic Council.

IV. LEGISLATION

(i) Statutes

17. The following additions to, and alterations in, the Statutes were adopted by the Senate during the year : These have also received the assent of the Chancellor.

- (i) Prescribing academic robes for the Degree of Dental Surgery (Vol. I, University Calendar, 1953-54, Statute 26, Chapter XXII).

- (ii) In regard to training in Navigation or Marine Engineering, the last date for submission of applications was changed from 1st September to 15th October on a representation from the Captain Superintendent of the Training Ship 'Dufferin'.
- (iii) Prescribing examination fees for the newly instituted Diploma Course in Business Management. (Vol. I, Calendar for 1953-54, Statute I (a)).

(ii) Ordinances

18. The following alterations in and additions to the Ordinances which were made by the Syndicate were submitted to the Chancellor and the Senate under Section 32 (2) of the Act :—

(Volume I, University Calendar for 1953-54).

- (1) *Chapter XXIV* : The addition of a footnote to Ordinance 46 for clarification regarding the grant of leave previously refused to a person after superannuation.
- (2) *Chapter XXIV* : Bringing the Provident Fund Contribution Rules of the University in line with the Madras Government Contributory Provident Fund-cum-Pension-cum-Insurance Rules.

(Volume II, University Calendar, 1953-54).

- (3) *Chapter XXVII* : Amendment to Ordinance 5 I (26) fixing fees for undergoing the Diploma Course in Business Management.
- (4) *Chapter XXVIII* : Amendment to Ordinance governing the dates for payment of examination fees, etc., for Diploma Course in Business Management and M.D. and M.S. Degree Examinations,

- (5) *Chapter XXXVII*: Amendment to Ordinance 5 II; deletion of the provision for the issue of detailed statement of marks of candidates to Principals.

(iii) Regulations

19. The following amendments to Regulations which were adopted by the Academic Council during the year were placed before the Senate under Section 33 of the Act.

(*Volume II, University Calendar, 1953-54.*)

1. Alterations to the Regulations in Chapter XL—permitting an alumnus of this University serving in the Indian Army Educational Corps to appear for the examinations of this University subject to satisfying the rules with regard to *bona fide* teachers and other conditions for the grant of exemption.
2. (i) Alteration to the Regulation in Chapter XLII — Intermediate Examination — Classifying candidates who passed only after moderation in the Third Class.
(ii) Alterations to the Regulations in Chapter XLII, Intermediate Examination, restricting the concessions granted to candidates who appeared and failed in the Intermediate Examination under the Old Regulations to appear for the examination under the present Regulations till September-October 1956.
3. Alterations to the Regulations in Chapter XLIII—B.A. Degree Examination—providing for the study of Adolescent Psychology as an alternative to Child Psychology under Group (iii-c).

4. Alterations to the Regulations in Chapters XLIX, L, LII and LXIV—M.Litt., Ph.D., M.Sc. and M.Sc. (Medicine and Veterinary Science)—Volumes II and III, University Calendar, 1953-54 making provision for limiting the number of appearances for each examination to three.
5. Alterations to the Regulations in Chapter L (Ph.D.)—Volume II, University Calendar, 1953-54 and Chapters LXIV, LXV and LXVI (M.Sc., M.D. and M.S.), Volume III of the Calendar, for reducing the period of the course in the case of graduates of other Universities who have registered for the Post-graduate courses in the Faculty of Medicine from the upgraded departments of the Medical Colleges of this University with a view to treating them on a par with the graduates of this University.
6. Alteration in Chapter LIII—Degree of Doctor of Science—making provision for the Degree holders in the Faculties of Veterinary Science, Agriculture and Technology also to supplicate for the D.Sc. Degree.

(Volume III, University Calendar, 1953-54).

7. (i) Alteration to the Regulation in Chapter LXIX—B. Pharm. Degree—deleting the provision for additional attendance in Regulation 15 in the case of candidates who have failed in Part I of the Examination.

- (ii) Alterations to the Regulations in Chapter LXIX, Volume III, University Calendar, 1953-54, renaming the Paper II Pharmaceutics under B. Pharm. Final Part II, as paper in Forensic Pharmacy and Pharmaceutical Bacteriology.
8. Alterations to the Regulations in Chapter LXXV—B.T. Degree Examination, revising the regulations regarding Practical Aspects of the B.T. Degree course by allotting symbolical representation of marks for Practical Tests and increasing the number of lessons to be recorded in the work book of practice.
9. Regulations relating to the Diploma course in Business Management.

V. CONSTITUENT AND AFFILIATED INSTITUTIONS

20. During the year under report six second grade colleges, five Training Colleges and two Oriental Title Institutions were affiliated to the University. The names of the institutions affiliated are :

1. South Indian Educational Trust Women's College, Madras.
2. Khadir Mohideen College, Adirampattinam (Tanjore District).
3. Little Flower College, Mamiyoor, Guruvayoor.
4. Anbanathapuram Vahaira Charities College, Mayuram.

5. Government Arts College, Ootacamund.
6. Raja Serfoji College, Tanjore.
7. Government Training College, Komarapalayam.
8. Government Training College, Pudukottai.
9. Vivekananda Training College, Thirupparayathurai (Tiruchirapalli District).
10. V.O. Chidambaram Training College, Tuticorin.
11. Government Training College, Vellore
12. Madrasa Jamalia, Madras.
13. Sullamussalam Arabic College, Areacode Feroke.

The G.V.G. Visalakshi College for Women, Udamalpet, was raised to a first grade college. The Engineering College, Guindy, was granted additional affiliation for the Post-graduate degree of M.Sc. in Public Health Engineering.

21. The number of Colleges—Constituent, Affiliated and Oriental—at the end of the year arranged according to Faculties is as follows :

<i>Faculty.</i>	<i>Constituent Colleges.</i>	<i>Affiliated Colleges.</i>
<i>Arts and Science—</i>		
Second Grade Colleges teaching upto Intermediate course.	2	15
First Grade Colleges (Intermediate, B.A. and/or B.Sc. courses)	6	40

<i>Faculty.</i>	<i>Constituent Colleges.</i>	<i>Affiliated Colleges.</i>
Honours Colleges with Inter- mediate, B.A. and /or B.Sc. Pass and Honours courses ...	4	2
Honours Colleges with only B.A. and B.Sc. Pass and Honours ...	I	...
<i>Law—</i>		
F.L. and B.L. ...	I	...
<i>Medicine—</i>		
M.B.B.S. ...	...	I
M.B.B.S., M.D., M.S. ...	I	I
M.B.B.S., B.S.Sc., B.Pharm., B.D.S., M.D., M.S. and Diploma Course ...	I	...
*B.Sc. (Nursing) ...	...	I
<i>Engineering—</i>		
F.E. and B.E. ...	I	3
M.Sc. ...	I	...
<i>Teaching—</i>		
B.T. and M.Ed.** ...	4	...
B.T. ...	...	II
<i>Agriculture—</i>		
B.Sc. (Ag.) ...	...	I
<i>Veterinary Science—</i>		
B.V.Sc. ...	I	...

* This course is provided in the Christian Medical College, Vellore.

** The M.Ed. Degree course is conducted with University co-operation and on an Inter-Collegiate basis by the four Constituent Training Colleges.

<i>Faculty.</i>	<i>Constituent Colleges.</i>	<i>Affiliated Colleges.</i>
<i>Technology—</i>		
B.Sc. (Tech.)	...	1
<i>Commerce—</i>		
†B.Com. (Pass and Honours).	2	...
†B.Com. (Pass) only	...	2
<i>Oriental Learning—</i>		
†B.O.L.
<i>Oriental Colleges.</i>		
Siromani and Vidvan
Siromani only
Vidvan only
Sangita Siromani
Munshi-i-Fazil and/or Afzal-ul-Ulama or Adib-i-Fazil

22. Details regarding grant of recognition, affiliation or approval of colleges in the various courses of studies during the year are given in **Appendix A.**

23. Thirty-three applications for the opening of new colleges or for additional or fresh recognition, or for affiliation or approval of courses from the academic year 1956-57 have been received. These applications are now under consideration.

† These courses are provided in the Colleges already included under Arts and Science.

24. **Admission to Colleges :** The number of students admitted to the Junior Intermediate class during the academic year 1955-56 was 16,975, the corresponding numbers in the preceding five years being 16,251, 17,206, 16,502, 15,260 and 12,840. As in previous years, the pressure for admission to University courses has been heavy, particularly in the city colleges. The total number of students undergoing courses in Arts and Science, Professional and other studies, as in December 1955, is as follows:—

Arts and Science including			
Commerce	...	47,842	
Law (B.L. and M.L.)	...	1,273	
Medicine (excluding Post-graduate Degree and Diploma courses)	...	2,042	
Engineering	...	1,044	
Agriculture (including Diploma in Horticulture)	...	318	
Veterinary Science	...	318	
Teaching :	...	1,092	
B.T.	... 1,079		
M.Ed.	... 13		
Technology	...	89	
Nursing	...	56	
M.Sc. (by examination)	...	29	
M.L. classes (University)	...	38	
Diploma classes (only those conducted in the University).		332	
Diploma in Social Service	...	68	
Oriental Titles	...	1,631	

25. **Women Students :** The number of women students studying in Arts and Science Colleges was 7,839 and in Professional institutions 934, the corresponding numbers in the preceding year being 7,077 and 948 respectively. The number of students in women's colleges was 6,407 in Arts and Science and 257 in Professional courses.

26. **Hostels :** Out of a total of about 55,743 studying in Arts and Science and Professional Colleges, 19,221 students were reported to be residing in College hostels or approved hostels, about 2,205 in lodgings approved by the College authorities and the rest with their parents or guardians.

27. The Madras University Hostel Construction Society has been functioning actively during the year. The Board of Directors has recommended loans to 14 institutions arranged in the order of priority, the total loan amounting to about Rs. 15,30,000. 32 colleges are now members of the Society. It was mentioned in the last report that the University made an application to the University Grants Commission for an interest-free loan of Rs. 10 lakhs for the construction of hostels. It is expected that this loan will be forthcoming shortly. A copy of the report of the Board of Directors of the Society which was presented to the General Body on 15th September, 1955, is printed in **Appendix I**.

The scheme for the construction of a hostel for women research students of the University is under active consideration. The Government of Madras would appear to have fixed up the site near the Government House Estate. It is understood that steps are being taken to get the plans, etc., prepared.

28. **Service Conditions of Teachers :** The draft rules regulating the conditions of service of teachers in colleges, have been circulated to the managements and are being adopted. One important modification which

the Syndicate has suggested in regard to the conditions of service relates to the age of retirement of teachers. The Syndicate has suggested that teachers in Colleges may ordinarily be continued till the age of 60 and thereafter from year to year subject to approval by the Syndicate up to the age of 65.

29. The General Inspection Commission to which a reference has already been made, inspected the Colleges in Kumbakonam, Tiruchirapalli, Pudukottai and Madurai.

VI. COURSES OF STUDY AND EXAMINATIONS

30. Amendments to the Regulations regarding the various courses, adopted by the Academic Council have already been reported. Mention may be made of the following :—

- (1) **Diploma in Business Management :**
Consequent on the institution of the Diploma course in Business Management, Regulations and syllabuses were framed for the course in consultation with the Special Committee appointed for the purpose. The course has been started from the academic year 1955-56.
- (2) **M.D., M.S., M.Sc. and Ph.D. :—**Consequent on the suggestion of the Director-General of Health Services, New Delhi and the Dean, Faculty of Medicine, Lucknow University regarding the period of study in the case of graduates of other Universities who register for the Post-graduate courses in the faculty of medicine in the up-graded departments of the Medical Colleges of this University, Regulations

have been modified placing them on a par with the graduates of this University.

31. **S.S.L.C. and A.I.H.S. Examinations :** The term of office of the Board of Secondary Education having expired, the Board was reconstituted by the Government of Madras. The following were nominated representatives of the University on the reconstituted Board :—

1. The Rev. L. D. Murphy, s.,j, M.A.
2. Sri R. Krishnamurti, M. A.
3. Sri Alexander Gnanamuttu, M.A., M.L.C.
4. Sri K. M. Sundaram, B.A., L.T.
5. Sri S. Natarajan, B.A., L.T.
6. The Rev. D. Thambuswami, M.A., L.T.

The Board for Anglo-Indian School-Leaving Certificates was likewise reconstituted on the 1st April 1954. The previous nominees of the University were renominated for a further term.

The number of candidates who appeared for the S.S.L.C. Examinations in March and October 1955 from this University area and the number declared eligible for admission to University courses of study were as follows :—

	<i>March</i> 1955	<i>October</i> 1955
Candidates taking subjects qualifying for eligibility ...	54,530	16,720
Candidates declared eligible ...	28,553	4,663

In the Anglo-Indian High School Examination held in November, 486 candidates were declared eligible out of 640.

The number of candidates registered for various research degrees was as follows :—

M. Litt. 18 ; M.Sc. 64 ; Ph.D. 48.

32. Examinations : The examinations of the University were held at the several centres fixed by the Syndicate and notified in the Gazette. The statement giving the number of candidates who appeared for and passed at the various examinations, titles, certificates and diplomas during the year 1955, is given in **Appendix B.**

33. Research Degrees : The number of persons who submitted theses for Research Degrees and the number declared qualified for the award during 1954-55 were as follows :—

	<i>Number of candidates who submitted thesis.</i>	<i>Number declared qualified for the degree.</i>
M.Litt. ...	9	8
M.Sc. ...	36	25 (The result of one candidate is pending).
Ph.D. ...	25	17 (The result of one candidate is pending).
D.Sc. ...	1	Pending.

Particulars regarding theses approved for higher Degrees during the year will be found in **Appendix C.**

34. Exemption from attendance certificates : Applications for exemption from the production of

attendance certificates prescribed for the various examinations were disposed of according to the rules. The following is the classified list of exemptions granted :—

	<i>From Colleges for shortage of attendance.</i>	<i>By private study.</i>	<i>From bona fide teachers.</i>
Matriculation	...	924	..
Intermediate	160	...	375
B.A.	44	...	121
B.A. (Hons.)	4	...	...
M.A.	3	...	64
B.Sc.	14	...	...
B.Com.	7	...	...
B.E.	5	...	...
B.L.	36	...	...
B.Sc. (Tech.)	1	..	..
Entrance Test (O. T. and Intermediate Group D)	2	801	...
Oriental Titles	2	276	337
B.O.L.	...	...	35
B.O.L. (Hons.)	...	...	2
Diploma in Statistics.	...	...	...
Diploma in Social Service	2	...	...

35. **Recognition of Examinations of other Bodies and Universities:** 3,417 applications for recognition of examinations of other Bodies and Universities for purposes of pursuing higher studies at this University were considered and disposed of during the year.

VII. CONVOCATIONS

36. During the year two Convocations, one with a supplementary session, were held for conferment of degrees, on the 16th February and on the 18th August 1955. Shri Sri Prakasa, Chancellor of the University presided at the main Convocation on the 18th August. Sri Diwan Bahadur R. V. Krishna Ayyar delivered the Convocation Address. At the supplementary session on the 19th August 1955 the Vice-Chancellor presided. At the supplemental Convocation held on 16th February 1955 the Vice-Chancellor presided.

The numbers at the three Convocations were as follows:—

<i>Degrees</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
M.L.	...	4	...	4
B.L.	...	529	8	537
M.D.	...	2	1	3
M.S.	...	7	...	7
B.S.Sc.	...	1	...	1
M B. B. S.	...	179	86	265
B. Pharm.	...	10	...	10
B.E.	...	265	...	265
M.Sc.	...	11	...	11
M.Sc. (by Exam.)	...	26	9	35
B Sc. (Hons.)	...	71	12	83
B.Sc.	...	1,134	192	1,326
B. V. Sc.	...	40	1	41
B.Sc. (Tech.)	...	27	...	27
B.Sc. (Ag.)	...	27	3	30
B.Com. (Hons.)	...	33	...	33

<i>Degrees</i>		<i>Men</i>	<i>Women</i>	<i>Total</i>
B.Com.	...	644	...	644
M.Ed.	...	7	5	12
B.T.	...	492	240	732
L.T.	...	5	4	9
M.Litt.	...	3	...	3
Ph.D.	...	21	1	22
M.A.	...	387	63	450
B.A. (Hons.)	...	378	52	430
B.A.	...	2,467	601	3,068
B.O.L.	...	24	6	30
		6,794	1,284	8,078
	Total ...			

37. At the Special Senate meeting held on the 27th October 1955, Titles or Diplomas were awarded to 617 candidates.

VIII. TEACHERS AND RESEARCH DEPARTMENTS

38. **Department of Business Management :—**
The grant offered by the University Grants Commission enabled the University to institute a Department of Business Management in August this year. Instruction is offered for the part-time Diploma Course in Business Management. The course started with 25 students in the first year, drawn from leading business houses in Madras.

39. **Equipment Grants :** A sum of Rs. 2,65,000 was sanctioned by the University Grants Commission for purchase of equipment in the Departments of Botany, Zoology, Bio-chemistry, Physics, Organic

Chemistry and Geology. The grant enabled the departments to be equipped with some of the latest apparatus and scientific instruments.

40. **Library Grants :** A sum of Rs. 70,000 was also received as grant for the purchase of books in Arts and Science subjects for the University Library. Besides this a sum of Rs. 30,000 was also sanctioned for purchase of books and journals in Science and Technology subjects and Rs. 20,000 for purchase of books for the newly instituted department of Business Organization.

41. **Personal Allowance to teachers:** The University Grants Commission continued during the year the grant of personal allowance to the two categories of University teachers viz., Professors and Senior Lecturers. It is understood that the question of introducing revised scales of pay to all categories of University teachers from 1st April 1956 and giving personal allowances to make good the difference in scales of salary is engaging the attention of the University Grants Commission.

42. **Expansion of the Departments of Indian Philosophy and Indian History & Archaeology :** The revised proposals submitted by the University for the expansion of the Departments of Indian History and Indian Philosophy to embrace the various systems of Philosophy were accepted by the University Grants Commission which sanctioned the necessary recurring grant. This enabled the University to expand the Department of Indian Philosophy by adding the posts of one Professor and one Lecturer in Philosophy.

Dr. T. V. Mahalingam, Reader in Indian History, has been deputed for a period of one year for archaeological training under the Director of Archaeology, Government of India. The question of appointment

of a Professor of Archaeology will be taken up after he returns on completion of training.

43. **Catalogus Catalogorum** : The work on the Catalogus Catalogorum is progressing. Two Research Assistants are now continuing their work.

44. **Mackenzie Manuscripts** : This work is now completed and ready for printing. This will be taken up after the return of the Reader, Dr. T. V. Mahalingam.

45. **Second Five-Year Plan** : The University submitted last year plans for the development and expansion of the research Departments under the Second Five-year Plan. The University Grants Commission requested that priorities in the schemes submitted under the Second Five-year Plan may be indicated and accordingly the University in consultation with the Heads of the Departments forwarded to the Commission the order of priority in which the proposals may be implemented.

The University also forwarded to the University Grants Commission a scheme for the development of facilities for Post-graduate education and research in Basic Sciences in the affiliated colleges under the Second Five-year Plan as also a scheme for the establishment of Post-graduate teaching and research centres in some stations outside Madras where there are several Colleges.

46. The following appointments were made during the year :—

1. Dr. G. S. Laddha, B.Sc. (Tech.), M.S. Ch.E. (Purdue), Ph.D. (Purdue), A.M.I.I., Chem.E., Ag.-Professor of Chemical Engineering and to be in charge of the Alagappa Chettiar College of Technology.
2. Dr. V. Raghavan, M.A., Ph.D., Professor of Sanskrit.

3. Dr. M. Arokiaswami, Reader in Indian History.
4. Dr. V. A. Devasenapathi, M.A., Ph.D., Reader in Indian Philosophy.
5. Sri G. V. Krishna Rao, M.A., B.L., M.B.A. (Columbia).
6. Sri S. Velayudham, M.A., L.T., B.Com. (Hons.) (Lond.).

(Readers in the Department of Business Management).

7. Sri Syed Usha, B.A., Senior Lecturer in the Department of Arabic, Persian and Urdu.
8. Sri M. S. Gopalakrishnan, M.A., M.Litt., Junior Lecturer in Anthropology. (Temporary for a period of one year).

47. Confirmation of Teachers : The following teachers of the University were confirmed in their appointments during the year :

1. Sri. G. D. Boaz, M.A., D.Phil., Professor of Psychology.
2. Sri. G. N. Ramachandran, M.A., Ph.D., D.Sc., A.I.I.Sc., F.A.Sc., Professor of Physics.
3. Sri P. Sambamurthy, B.A., B.L., Reader in Indian Music.
4. Sri V. S. Krishnan, M. A., D.Sc., B.T., Reader in Mathematics.
5. Sri S. Krishnamurthy, B.Sc., B.Sc. (Tech.), Reader in Weaving.
6. Sri Alladi Ramakrishnan, B.Sc. (Hons.), Ph.D. (Manchester), Reader in Physics.

7. Sri M. Santhappa, B.A., Ph.D. (Manchester), Ph.D.(Lond.), Reader in Physical Chemistry.
8. Sri P. R. Jagapathy Naidu, M.Sc., D.Phil. (Basel), Reader in Geology & Geophysics.
9. Sri S. Shankar Raju Nayudu, M.A., Senior Lecturer in Hindi.
- 10 Sri V. L. S. Prakasa Rao, M.A., D.Phil., Senior Lecturer in Geography.

The services of the following teachers were extended for the periods noted against each:—

1. Dr. K. N. Menon, Professor of Organic Chemistry for 2 years from 14th July 1955.
2. Mrs. Ellen Sharma, Lecturer in German, extended till 15th November 1958.
3. Sri A. M. S. Krishnamachari, B.A., Part-time Instructor in Shorthand till December 1956.
4. Sri Madurai S. Subrahmanya Ayyar, Violin Assistant in the Department of Indian Music for one year from 29th June 1955.

Sri B. C. Mohanty, Professor of Textile Technology resigned his appointment with effect from 23rd December 1955. Arrangements are made to fill the post in accordance with the Statutes.

48. Grant of leave for study and research etc.:
Dr. C. H. Alexandrowicz, Professor of International and Constitutional Law was granted study leave out of India from 15th to 30th April and from 1st to 15th July 1955 with permission to avail himself of the vacation in order to carry out some research work in the U. K. He returned in August 1955.

49. Dr. U. R. Ehrenfels, Head of the Department of Anthropology, was out of India on study leave from 1st April to September 1955. In his absence, the work of the department was carried on by Sri M. S. Gopalakrishnan, Junior Lecturer in Anthropology, who was appointed for a period of one year from 15th July 1955.

50. Sri M. Mariappa Bhat, Reader in Kannada, was permitted to avail himself of a Travel Grant awarded by the British Council to study at the London School of Oriental and African Studies from 20th September to July 1956. During his absence, the Junior Lecturer in Kannada is in charge of the Department.

51. Dr. George Kurian, Professor of Geography, attended the Executive Committee of the International Geography Union at Makerere College, Kampala, Uganda (East Africa) between the 10th and 20th September 1955. He later also attended the Seminar at Bandung on population problems in S.E. Asia convened under the auspices of the UNESCO.

52. **Delegation to China:** On a communication received from the Government of India, Ministry of Education that an invitation had been received from the Students' Union of the National Peking University through the Embassy of the People's Republic of China in India, a delegation consisting of a Professor and two Post-graduate students, was sent. The delegates were Dr. G. D. Boaz, Professor of Psychology and Mr. C. Raghunathan, Final year student of the B.Sc. (Tech.) Degree course in Textile Technology and Mr. S. A. Ashrof, student for M.Sc. in Geology. The delegation after a successful tour of the People's Republic of China for about six weeks returned in the first week of November 1955.

53. The term of appointment of Sri R. Janardhanam Naidu, Librarian of the University Library was extended for a further period of two years from July 1955.

54. Ford Foundation Research Programme :

On receipt of a communication from the Vice-Chairman, Planning Commission, asking whether the University would be willing to participate in the programme of strengthening the Economic and Social Science faculties in the University with assistance from the Ford Foundation, the University accepted the proposal to participate in such a programme of work for a four-year period and sent proposals which were accepted by the Planning Commission. A grant of Rs. 61,661 was received for the programme for the year 1955-56.

A Professor, a Reader and a Lecturer have been appointed. The Reader and Lecturer have joined duty while the Professor is expected to join shortly. Some research student-trainees have also been selected for training under this programme.

55. The following schemes of research sponsored by the authorities noted against each are in progress in the respective departments :—

<i>Name of the Scheme.</i>	<i>Department.</i>	
1. Thyroidal Activity Thyroglobulin and other iodo-proteins.	Biochemistry	Council of Scientific and Industrial Research.
2. Biochemical role of Zinc using radioactive Zinc.	Do.	Atomic Energy Dept., Govt. of India.
3. X-ray and optical studies on Collagen.	Physics	Council of Scientific and Industrial Research.
4. Milk and Milk products.	Biochemistry	Madras State Research Committee.

<i>Name of the Scheme.</i>	<i>Department.</i>	
5. Agro-Economic Research.	Economics	Ministry of Agriculture, Govt. of India.
6. Economics of Farm Management.	Do.	Do.
7. Socio-Economic Survey of Madras City.	Do.	Planning Commission, Govt. of India.
8. Handloom Survey.	Do.	Handloom Cess fund.

56. The following scheme has been sanctioned by the Council of Scientific and Industrial Research during the year under review :

<i>Name of the Scheme.</i>	<i>Department.</i>	
“ Preservation of Neera ”	Biochemistry Department	Council of Scientific and Industrial Research.

57. The Government of India continued the scheme for the award of Junior and Senior Research Training Scholarships in the Science Departments of the University for the current year. The number of Junior and Senior Research Scholarship holders allotted to the different departments is given below :—

	<i>Senior</i>	<i>Junior</i>
Organic Chemistry	2	3
Biochemistry	3	3
Botany	5	3
Zoology	3	2
Chemical Engineering	3	...
Mathematics	2	1
Statistics	2	2

The Government of India have now stated that hereafter no Junior Scholarships would be awarded and that the Junior Scholarships which fall vacant or which might be relinquished be not filled. The Government have now sanctioned the following additional Senior Scholarships in the following subjects :—

Organic Chemistry	...	1
Biochemistry	...	1

The Government of India have also sanctioned fresh Senior Scholarships in the following subjects :—

Physics	...	2
Geology	...	1
Psychology	...	1
Physiology and Anthropology	...	1

58. Government of Madras Scholarships :

The following awards of scholarships of the value of Rs. 56/- per mensem tenable for a period of two years have been sanctioned by the Government of Madras in the departments noted against each :—

1. Chemical Engineering	...	2
2. Physics	...	2
3. Biochemistry	...	2
4. Organic Chemistry	...	2
5. Geology and Geophysics	...	2

59. The Industrial Training stipends were also continued by the Government of India during the year. The following were the Departments holding the awards :—

Chemical Engineering	...	4
Textile Technology	...	2
Leather Technology	...	2

60. The University continued to conduct the several Diploma classes. The number of students attending the several courses is given below :—

Diploma in Economics :	1st year	...	9
	2nd year	...	8
Diploma in Statistics :	1st year	...	37
	2nd year	...	26
Diploma in Politics and Public Administration :	1st year	...	18
	2nd year	...	27
Diploma in Indian Music:	1st year	...	13
	2nd year	...	13
Diploma in Journalism :		...	9
Diploma in Business Management :	1st year	...	25
Diploma in Librarianship:		...	20
Diploma in Anthropology:	1st year	...	4
	2nd year	...	2
Diploma in Modern European Languages :	French	...	9
	German	...	16
Certificate in :			
	French	...	21
	German	...	52
	Anthropology	...	3
	Librarianship	...	20

61. **M.Sc. (By examination):** The conduct of M.Sc. courses in the University Departments with the co-operation of the Honours Colleges in the City of

Madras was continued. The subjects for which classes were conducted and the number of students admitted are given below :—

M.Sc. (by examination)

Mathematics (Theory of Structures) ...	10
Physics :	
X-Rays and Crystallography ...	4
Chemistry :	
Organic Chemistry ...	1
Physical Chemistry (Loyola College)...	3
Biochemistry ...	3
Zoology : Marine ...	4
Botany :	
Plant Pathology ...	1
Morphology of Angiosperms (Presidency College) ...	2
Geology ...	1

62. Classes for M.L. Degree in International and Constitutional Law were also conducted in the Department of Constitutional and International law. The number of students in the M.L. class is given below :—

M.L. Classes :

First Year ...	27
Second Year ...	11

63. **Inter-Collegiate Honours and Post-graduate lectures :** Courses of lectures for Honours and Post-graduate students continued to be organised on an Inter-Collegiate University Co-operation basis. The Post-graduate Council in the Humanities and Science subjects drew up the programme of lectures with the assistance of Sub-Committees for the several subjects. The lectures were delivered by the teachers of the University and of the Honours Colleges concerned.

The members of the Council were as follows:--

Humanities

The Rev. J. R. Macphail, M.A. (*Convener*)

Sri T. K. Venkataraman, M.A.

The Rev. F. Basenach, s.J, B.Sc., Ph. D.

Sri S. A. W. Bukhari, M.A.

Sri K. Kanakasabhapathi Pillai, M.A., L. T.,
D. Litt., D.Phil. (Oxon)

Sri R. Balakrishna, M.A., Ph.D. (Lond.)

Sri R. Bhaskaran, M.A.

Sciences

Dr. K. N. Menon (*Convener*)

The Rev. C. Racine, s.J., D.Sc.

Dr. S. Gopalakrishnamurti.

The Rev. L. M. Yeddanapalli, s.J.

Dr. J. P. Joshua

Dr. T. S. Sadasivan.

Dr. C. P. Gnanamuttu

64. **Research and other publications:** Details of Endowment Lectures and research works published during the year are given below:—

Lectures:

1. Recent Trends in Indian Finance by Dr. R. Balakrishna.
2. Civil Services, History and Problems by Sardar K. M. Panikkar.
3. Our Sovereign Democratic Republic Lecture—I by Dr. K. M. Munshi.
4. Our Sovereign Democratic Republic Lecture—II by Dr. K. M. Munshi.

*Research Works:**Indian History Department :*

5. South Indian Polity by T. V. Mahalingam.
6. The Colas—Revised Edition by K. A. Nilakanta Sastri.
7. The Purana Index, Volume III by V. R. Ramachandra Dikshitar.

Tamil Department :

8. Tiruvaymoli Ittin Tamilakkam, Volume V (Hymns 443—552) by Vidvan B. R. Purushothama Naidu.
9. Tiruvaymoli Ittin Tamilakkam, Volume VI (Hymns 553-662) by Vidwan B. R. Purushothama Naidu.

Telugu Department :

10. The Southern School in Telugu-Literature by N. Venkata Rao.

Malayalam Department :

11. Keralattile Natoti Natakangal (Folk-Drama of Kerala) by Dr. S. K. Nayar.
12. Another Nala Charitam Attakkatha by Dr. S. K. Nayar.

Kannada Department :

13. Parsvanatha Puranam of Parsava Pandita by M. Mariappa Bhat and M. Govinda Rao.

Sanskrit Department :

14. The Vedanta Kaumudi of Ramadvayacharya by S. Subrahmanya Sastri,

IX. OTHER GENERAL ITEMS OF IMPORTANCE

65. **Inter-University Board :** The Vice-Chancellor continued to represent the University on the Board. He continues to be the Chairman of the Standing Committee of the Inter-University Board. The annual meeting of the Inter-University Board was held at Aligarh.

66. **The Association of the Universities of the British Commonwealth :** The Vice-Chancellor continued to be the *ex-officio* representative of the University on the Association. He is also one of the two representatives of the Inter-University Board on the Executive of the Association.

67. **University Grants Commission :** The Vice-Chancellor is a member of the Grants Commission.

68. **University Extension Boards :** Extension Boards were constituted at the following places and lectures were arranged as usual by these Boards :—

- | | |
|-------------------------------|-----------------------------|
| 1. Coimbatore. | 9. Trichur. |
| 2. Ernakulam-Thevara. | 10. Vaniyambadi-Tirupattur. |
| 3. Kancheepuram. | 11. Tuticorin. |
| 4. Karaikudi-Sivaganga. | 12. Kumbakonam. |
| 5. Kozhikode-Feroke. | 13. Pudukottai. |
| 6. Palghat. | 14. Vellore. |
| 7. Tirunelveli-Palayamkottai. | 15. Virudhunagar. |
| 8. Tiruchirapalli. | |

69. **Debates and Students' Seminars :** Inter-Collegiate Debates in English, Tamil, Telugu, Kannada, Malayalam, Urdu, Sanskrit and Hindi were conducted on a zonal basis and the finals were arranged

on an interzonal basis. The following were the winners in the debates conducted during the year:—

ENGLISH

First : Miss Prema Oommen, St. Agnes College, Mangalore.

Second : Miss Grace Adiappa, Presidency College, Madras.

Best among men Speakers : { Mr. G. Rajagopalan,
Meston Training College,
Madras.

TAMIL

First : Mr. R. Nagarajan, Raja's College, Pudukottai.

Second : Mr. T. R. Janarthanam, Government Victoria College, Palghat.

Third : Miss K. Sulochana, Queen Mary's College, Madras.

TELUGU

First : Mr. G. Gurunatha Rao, Madras Christian College, Tambaram.

Second : Miss A. Anusuya, Women's Christian College, Madras.

MALAYALAM

First : Mr. V. M. Mathew, Sacred Heart College, Thevara-Ernakulam.

Second : Mr. Joseph Mundakal, St. Joseph's College, Tiruchirapalli.

Third : Miss K. P. Sumangala, Queen Mary's College, Madras.

SANSKRIT

- First* : Mr. R. Kalyanasundaram, Government Arts College, Kumbakonam.
- Second* : Mr. M. Prabhakara Saralya, Sanskrit College, Madras,
- Third* : *Miss A. V. Susila*, Stella Maris College, Madras.

URDU

- First* : Mr. S. Asrar, Presidency College, Madras.
- Second* : Mr. Md. Akthar Sayeedh, Jamal Mohammed College, Tiruchirapalli.

HINDI

- First* : Mr. K. Shivananda, Government Arts College, Mangalore.
- Second* : Mr. M. K. Mohan, The New College, Madras.
- Third* : *Miss Nirmal Gupta*, Ethiraj College, Madras.

KANNADA

- First* : Mr. G. Subraya, Government Training College, Mangalore.
- Second* : Mr. U. Ishwara Bhat, Government Arts College, Mangalore.
- Third* : *Miss P. Neerada*, Government Arts College, Mangalore.

70. Our University team participated in the Inter-University debate in English organised by the Andhra University Colleges Union and stood second in rank.

71. **Visits** : Since the last report, the following persons and scholars visited the University:—

<i>Name.</i>	<i>Date of visit.</i>
1. H. H. The Yuvaraja Karan Singh, Sadar-i-Riyasat of Jammu and Kashmir and his party.	31st December 1954.

- | <i>Name.</i> | <i>Date of visit.</i> |
|---|--|
| 2. Dr. Colsell Sanders, M.A.,
Dip. Edun., Ph.D. (Lond.),
Prof. of Education at the
University of W. Australia. | 20th and 24th January 1955. Visited all the training colleges in the city. |
| 3. A Soviet Cultural Delegation of 10 members composed of Writers, Poets, Artists and Pressmen, headed by Mr. Survok (Leading poet and prominent figure in the University of Soviet Union). | Visited the University Departments and Library on the 14th February 1955. |
| 4. Dr. Helen Keller, the renowned Deaf, Blind Author, Lecturer and Social Worker of the U.S.A. | A lecture was arranged at the Senate House on the 14th March 1955. |
| 5. Dr. Wade Ellis, Professor of Maths., Oberlin College, Ohio, U.S.A. | Visited Mathematics Department of the University and the Presidency College and Queen Mary's College on the 18th March 1955. |
| 6. Mr. P. Martin Smith, National Secretary of Adult Education, New Zealand. | A meeting was arranged for him with Director of Community Projects, Registrar of Co-operative Societies, etc., on the 24th March 1955. |

7. The following three American Members of the Joint Indo-American Agricultural Research and Education Team visited the University with the Secretary, I.C.A.R., on the 16th August 1955:

1. Dr. R. E. Buchanan, Former Dean and Director of the Gowa State College, U.S.A.
2. Dr. A. H. Moseman, Assistant Administrator, Agricultural Research Service, U.S. Department of Agricultural College, Kansas.
3. Dr. E. Leasure, Head of the Department of Veterinary Research, Kansas State Agricultural College.

72. The following persons gave lectures at the University.

<i>Name of Lecturer</i>	<i>Subject of Lectures</i>
1. Dr. Hans Boesch, one of the Vice-Presidents of the International Geographical Union and Professor, University Department of Geography, Zurich, Switzerland.	Life in Switzerland.
2. (a) Professor Maass, Heidelberg University.	Dirichlet Series and Modular Functions.
(b) Prof. L. Schwartz of Paris University.	Theory of Distribution.
3. Prof. M. L. Oliphant, F.R.S., Director, Research School of Physical Sciences, The Australian National University, Canberra, Australia.	Science and Mankind.

<i>Name of Lecturer</i>	<i>Subject of Lectures</i>
4. Dr. Richard E. Weigle, President, St. John's College, Annapolis, Maryland, U.S.A.	American Political Parties.
5. Dr. Deuring, Director of the Institute of Maths., University of Gottingen (W. Germany).	Recent Development in Algebra and Numbers.

73. **Foreign Scholars:** The following Foreign Scholars are undergoing instruction for various courses of studies in the University. They were deputed by the Government of India under the cultural scholarships scheme:—

1. Mr. John Frederick Staal of the Netherlands continues his Post-graduate study in the Philosophy Department of the University for the Ph.D. Degree.
2. Mr. Heinz Tittelbach of Germany continues to study Tamil, Sanskrit and Hindi under the Indo-German Industrial Co-operation Scheme of the Government of India.
3. Mr. M. G. Pourcher, a French Research Fellow, is pursuing research work in the Statistics Department for the M.Sc. Degree.

The following statement shows the foreign scholars studying for various courses in the several colleges of the University:—

Ceylon	...	590	Pakistan	...	2
Malaya	...	70	Iraq	...	2
Africa	...	18	U.S.A.	...	2
Fiji	...	9	British Guiana	...	2
Mauritius	...	6	Phillippines	...	1
Burma	...	8	Indonesia	...	1
Siam	...	5	Thailand	...	1
Canada	...	1	Nepal	...	2

74. **University Union :** Sri R. Krishnamurti continued to be the President of the Union and the Rev. L. D. Murphy, S. J., continued as its Honorary Treasurer. The activities of the Union continued as usual. Tenders have been received for the construction of a new pavilion. Grant-in-aid has also been received from the Government of India towards this project under the Campus Works Projects Scheme. The grounds of the Union were utilized for the conduct of Inter-Collegiate and Inter-University Tournaments. Inter-Collegiate Tournaments for men and women students were held separately during the year. The University also participated in the Inter-University events. A detailed report by the Honorary Treasurer will be found in **Appendix E**.

75. **National Cadet Corps :** There has been satisfactory all-round progress. Some of the salient features of the working of the N.C.C. are given below.

After the acceptance of the expansion proposals by the Union and the State Governments, selection of Officer Cadets from Colleges was made by the Selection Board with the Vice-Chancellor as the Chairman. The number selected and the places to which they were sent for pre-Commission training are given in **Appendix F**. An additional sum of Rs. 4,500 was sanctioned by the University for provision of amenities and Welfare of Cadets belonging to the new N.C.C. Companies which have been started this year. The details of the Grants are given below :—

	RS.
Tambaram Ind. Coy. N.C.C.	1,000
9th Madras E.M.E. Sec. N.C.C. ...	600
10th Madras E.M.E. Sec. N.C.C. ...	1,200
4th Madras BN. N.C.C. ...	1,700

76. The Third combined Cadre and Social Service Camp held at Chinnalapatti in Madurai District is a feature worth mentioning. With the help and assistance rendered by the Community Projects Administration the N.C.C. Cadets laid a road, $3\frac{1}{2}$ miles long, connecting Chinnalapatti Village with Athur, which was a long felt need.

As usual, a contingent of one N.C.C. Officer and 22 Cadets drawn from various Units was sent to Delhi, to participate in the Republic Day Parade held on the 25th January 1955.

77. The Union and the State Governments have sanctioned the raising of two Independent Companies Tropoins and 100 Madras State for the financial year 1955-56. The new Infantry Units have now been raised in the following Colleges :

Karaikudi Ind. Coy. Dr. Alagappa Chettiar College, Karaikudi and Government College, Pudukottai.
N.C.C.

Tirunelveli Ind. Coy. M.D.T. Hindu College, Tirunelveli, St. Xavier's College, Palayamkottai and St. John's College, Palayamkottai.
N.C.C.

78. Women's contingents attached to the three city colleges continued to function satisfactorily.

79. **Prizes for the encouragement of Publications of Modern Works in Indian Languages—Original Works :** The subject chosen for the Prize for the year 1953-54 was "A New Geography of India." Four theses were received for the prize, two in Tamil and two in Kannada. The Prize for the thesis in the Kannada Language was awarded to Sri M. Vasudeva Rao, M.A..

L. T., Headmaster, Vidyadayanee High School, Suratkal and the book is under publication. The theses in Tamil are under scrutiny. The subject chosen for the Prize for the year 1954-55 was "Dietetics in India and the Problems connected therewith." The last date fixed for the receipt of theses is 15th July 1956.

The Syndicate records with pleasure that Sri R. P. Sethu Pillai, Professor of Tamil of the University was awarded by the Government of India a Cash Prize of Rs. 5,000 on the recommendation of the Sahitya Academy for his book, "Tamiz Inbam" which was adjudged as being the best book written in Tamil after the advent of Independence.

80. **Adaptation** : The adaptation in Tamil of the book "Earthlore Geology without Jargon" by Alexis Carrel was approved by the Scrutinizer and is under print. The book selected for the year 1954-55 was "Nuclear Physics" and permission to adapt it into Indian Languages, is awaited from the original Publishers of the book.

81. **Election** : Elections were held to fill interim vacancies on the various University Bodies.

82. **Nomination to outside Bodies and delegations to Conferences, etc.** : As usual teachers of the University were deputed by the University to the annual Conferences and Congresses concerning their subjects of study during the year. The following were the teachers so deputed :—

Convention on Chemical and Textile Standards at Bombay :—

Sri B. C. Mohanty, M.Sc. (Leeds), Professor of Textile Technology.

Fourth Session of the Sanskrit Visva Parishad at Tirupati :—

Sri V. Raghavan, M.A., Ph.D., Professor of Sanskrit.

Education Ministry Conference of University Sanskrit Professors at Delhi :—

Sri V. Raghavan, M.A., Ph.D., Professor of Sanskrit.

Indian Philosophical Congress at Nagpur :—

Sri T. M. P. Mahadevan, M.A., Ph.D., Professor of Philosophy.

Indian History Congress at Calcutta :—

Sri K. Kanakasabhapathi Pillai, M.A., D.Phil. (Oxon.), D.Litt., Professor of Indian History and Archaeology.

Indian Science Congress at Agra, January 1956 :—

Sri George Kuriyan, B.A., B.Sc., Ph.D. (Lond.), Professor of Geography.

Sri G. D. Boaz, M.A., D.Phil. (Oxon.), Professor of Psychology.

Sri T. S. Sadasivan, M.Sc., Ph.D. (Lond.), F.A.Sc., F.B.S., Professor of Botany.

Sri P. S. Sarma, M.Sc., Ph.D. (Wisconsin), F.R.I.C. (Lond.), F.A.Sc., Professor of Biochemistry.

Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D. (Manchester), F.S.S., Reader in Statistics.

Sri C. P. Gnanamuttu, M.A., D.Sc., Professor of Zoology.

Baron U. R. Ehrenfels, Ph. D. (Vienna), Senior Lecturer in Anthropology.

Sri M. Santappa, B.A., Ph.D. (Manchester), Ph.D. (Lond.), Reader in Physical Chemistry.

Sri G. N. Ramachandran, M.Sc., D.Sc., A.I.I.Sc., Professor of Physics.

All-India Oriental Conference at Annamalainagar :—

Sri R. P. Sethu Pillai, B.A., B.L., Professor of Tamil.

Sri N. Venkata Rao, M.A., Senior Lecturer in Telugu.

Sri S. Krishnan Nayar, M.A., Ph.D., Senior Lecturer in Malayalam.

Sri S. Shankar Raju Naidu, M.A., Senior Lecturer in Hindi.

Sri Syed Abu Usha, B.A. (Aligarh), Junior Lecturer in Arabic, Persian and Urdu.

Sri P. Sambamoorthy, B.A., B.L., Reader in Indian Music.

Annual General Meeting of the Indian Institute of Chemical Engineers held at Delhi :—

Sri G. S. Laddha, B.Sc. (Tech.), M.S., Ch.E., A.M.I. Chem. E.

All-India English Teachers Conference at Cuttack :—

Sri R. Krishnamurti, M.A.

International Geography Seminar at Aligarh, January 1956 :—

Sri George Kuriyan, B.A., B.Sc., Ph.D. (Lond.)

Sri V. L. S. Prakasa Rao, M.A., D.Phil.

35th Session of the Institute of Engineers (India) at Hyderabad :—

Sri V. S. Jayaraman, Reader in Chemical Engineering, B.E., A.M.I.E., A.M.I.I. Chem. E.

12th All-India Textile Conference and Industrial Exhibition at Calcutta.

Sri B. C. Mohanty, M.Sc. (Leeds.)

Symposium on Education in Chemistry at Bombay :—

Sri K. N. Menon, M.Sc., A.I.C., A.I.I.Sc.

Conference on Anthropology and Sociology at Madras:—

- (1) Baron U. R. Ehrenfels, Ph.D. (Vienna),
Senior Lecturer in Anthropology.
- (2) Sri M. S. Gopalakrishnan, M.A., M.Litt.,
Dip. in Anthropology, Junior Lecturer
in Anthropology.

**83. Youth Camps and Labour Service by Students
Camps arranged and organised.**

DURING 1954-55.

Under the scheme of Youth Welfare programme sponsored by the Ministry of Education, the Government of India agreed to meet the incidental charges of Youth Welfare and social service camps organised by College students :—

For students and non-students.

- (i) Transport (3rd class railway fare or actual bus fare).
- (ii) Rs. 2 per head per day for boarding and other incidental expenses connected with the camp.

For members of staff of colleges/organizers accompanying the students.

- (i) II class railway fare or the actual bus fare.
- (ii) Rs. 2 per head per day for incidental expenses.

Such camps were organised by the following colleges during Summer 1954-55 :—

1. Presidency College, Madras.
2. Government Arts College, Madras.
3. Sir Theagaraya College, Madras.
4. Vivekananda College, Madras.
5. Jamal Mohamed College, Tiruchirapalli.

6. National College, Tiruchirapalli.
7. Government College, Kumbakonam.
8. The Raja's College, Pudukottai.
9. The American College, Madurai.
10. Thiagarajar College, Madurai.
11. Madura College, Madurai.
12. V.H.N. Senthikumara Nadar College, Virudhunagar.
13. Alagappa College, Karaikudi.
14. M.D.T. Hindu College, Tirunelveli.
15. Islamiyah College, Vaniyambadi.
16. Government Victoria College, Palghat.
17. Farook College, Feroke.
18. Providence Women's College, Kozhikode.
19. Malabar Christian College, Kozhikode.
20. Government Training College, Kozhikode.
21. St. Agnes' College, Mangalore.
22. Government Arts College, Mangalore.
23. M.G.M. College, Udipi.

84. The State Government also agreed to sanction the following amounts for each camp for incidental expenses, from the State funds. The camps were organised in co-operation with community projects in the State:—

	RS.
If the number of students and staff for a camp is 100 or above ...	100
If the number of students and staff for a camp is below 100 ...	50

85. For the following colleges, grants for the holding of camps were received directly from the Ministry of Education, New Delhi and disbursed through the University:—

1. Mahajana College, Erode.
2. St. Joseph's College, Tiruchirapalli.
3. Stanley Medical College, Madras.

86. Camps were organized during the Autumn Recess by the following Colleges:—

1. Government Victoria College, Palghat.
2. St. Agnes' College, Mangalore.
3. National College, Tiruchirapalli.
4. Madura College, Madurai.
5. V.H.N. Senthikumara Nadar College, Virudhunagar.

87. Camps were organised by the following Colleges during the Winter Recess :—

1. Providence Women's College, Kozhikode.
2. St. Joseph's College, Tiruchirapalli.

88. Campus Work Projects—1955-56:—

During the financial year 1955-56, the Government of India, Ministry of Education, New Delhi, have sanctioned the grant of a total sum of Rs. 3,40,377 for the construction of work projects under the Youth Welfare Programme, 1955-56, for the following colleges. The Grants were also sanctioned for the University projects (1) for the construction of a pavilion-cum-open air theatre at Spur Tank and (2) for the construction of a pavilion-cum-auditorium at the A.C. College of Technology .—

1. V. H. N. Senthikumara Nadar College, Virudhunagar.
2. Sir Theagaraya College, Madras.
3. Farook College, Feroke.
4. Providence Women's College, Kozhikode.
5. Sacred Heart College, Tirupattur.
6. St. Thomas College, Trichur.
7. Seethalakshmi-Ramaswami College, Tiruchirapalli.

8. S.I.E.T. Women's College, Madras.
9. S. R. M. V. Teacher's College, Perianaickenpalayam.
10. M.D.T. Hindu College, Tirunelveli.
11. St. Joseph's College, Tiruchirapalli.
12. St. Xavier's College, Palayamkottai.
13. Alagappa College, Karaikudi.
14. Madras University.
15. A. C. College of Technology, Guindy, Madras.

89. Another important feature of assistance now being received from the Government of India is the grant of railway fares to teams of students and teachers for hikes and tours. The following colleges received assistance during the year for such tours :—

<i>College.</i>	<i>Place of Tour.</i>
1. St. Agnes' College, Mangalore.	Shoranur, Coimbatore and Cochin.
2. Agricultural College, Coimbatore.	Tour covering entire North India.
3. American College, Madurai.	Kazipet, Hyderabad, Poona and Bombay.
4. Providence Women's College, Kozhikode.	Delhi and Agra.
5. Women's Christiana College, Madras.	Nagarjunakonda.
6. M.G.M. College, Udipi	Bhadravati—Dharwar—Hampi—Secunderabad—Ajanta—Bombay—Bijapur.

<i>College.</i>	<i>Place of Tour</i>
7. Lady Willington Training College, Madras.	Hyderabad, Aurangabad, Ellora and Ajanta.
8. Beschi College, Shembaganur.	Tirunelveli — Cape Comorin.
9. St. Mary's College, Trichur.	Mysore.
10. Mahajana College, Erode.	Madurai — Trivandrum — Cochin — Trichur.
11. Sarah Tucker College, Palayamkottai.	Mysore.
12. G.V.G. Visalakshi College for Women, Udamalpet.	Bangalore, Bombay, Ellora and Ajanta.
13. P.S.G. & Sons' Charities College of Tech., Coimbatore.	Bhakra Nangal Project—Delhi—Agra.
14. Queen Mary's College, Madras.	Waltair—Tatanagar—Calcutta—Delhi.
15. S.I.E.T. Women's College, Madras.	Bangalore, Mysore and Ootacamund.
16. University Department of Geography.	Waltair, Calcutta and Delhi.

X. BUILDINGS AND ACCOMMODATION

90. The construction of aquaria, air-conditioning a room and sea-water circulation work in the Zoology Laboratory are progressing. Arrangements are being made to alter the animal house behind the laboratory to provide a cold room, etc. As already stated the proposal of the University to construct a University Pavilion-cum-Auditorium costing about Rs. 1½ lakhs,

which will serve a very useful purpose for all University activities, student welfare and physical activities and as an open-air-theatre, was submitted to the Government of India and the University Grants Commission. The Government of India has sanctioned a sum of Rs. 45,000 towards construction of this building under the Campus Works Programme. It is expected that the building will be completed and ready for use before the Centenary celebrations of the University, which may take place in January-February 1957.

91. The Government of India has also sanctioned an half grant of Rs. 15,805 for constructing a Pavilion in the A.C. College of Technology. Arrangements are being made to proceed with this work.

92. Construction work is proceeding in respect of a Solvent House, Animal House and Sergeant's Quarters in the College of Technology premises.

93. A house in Kutchery Road, Mylapore, Madras, which was bequeathed to the University by the late Sri K. N. Aiyah Ayyar came into the possession of the University. Some extensive repairs suggested by the University Engineer were carried out.

XI. LIBRARY

94. Sri R. Janardhanam Naidu, B.A., L.T., Dip. Ed. (Oxon.), Dip. L.S. (Lond), F.L.A., continued to be the Librarian, his services having been extended by two years from 25th July 1955.

Mr. V. S. Muthiah, M.A., L.T., A.M.L.S. (Michigan), continued to be the Assistant Librarian.

Main Library :

95. **Reference Section:** Bibliographical lists were prepared and supplied as usual to members and inquirers.

96. **Issue Section :** 4912 members borrowed books from the Library. Of these 701 joined during the year. There were 419 mofussil members. 2,48,704 books were consulted within the Library and 1,45,713 books were issued for home reading. The number of readers that used the Library during the year was 87,527.

97. **Hours of the Library:** The Library worked from 8 a. m. to 8 p. m. on all days of the year, including Sundays and other public holidays, except on Wednesday the 14th December 1955 when the library was closed on account of the Solar Eclipse.

98. **Binding Section :** 1102 books and 1339 periodical publications were bound during the year under report.

99. **Technical Section :** 5543 volumes of books and periodicals, 49 theses and 19 research reports were accessioned, classified and catalogued during the year, involving the preparation of 16,180 cards.

100. **Book Section :** 7298 volumes were added to the Library of which 5907 were by purchase and 1391 by donation or exchange. Of these 1505 were deposited in the Departmental Libraries.

There are 1,42,796 volumes in the main library and 34,948 volumes in the Departmental Libraries, thus making a total of 1,77,744 volumes. Besides these, the Library also possesses 2236 maps, 40 paper manuscripts and a set of photostat copies of Ramanujam's manuscripts. 58 more copies of theses submitted for research degrees of the University were deposited in the Main Library, thus making a total of 736. 23 final reports of research students have also been deposited.

101. Certain valuable books and periodicals were received as gifts from the following:—

1. The American Consulate, Madras and United States Information Service, Madras.
2. The British Information Service, Madras.
3. Sri C. S. Ayyar, Retd. Accountant-General, Edward Elliot Road, Mylapore.
4. Hon. Justice. A. S. P. Ayyar, I.C.S., High Court Judge, Madras.
5. All Union Society for Cultural Relations with Foreign Countries Moscow.
6. Govt. of India, Ministry of Information and Broadcasting, Publications Division, New Delhi.
7. The German Consulate, Madras through the Vice-Chancellor, University of Madras.

These gifts were acknowledged with thanks.

102. **Periodical publications:** The current periodical publications numbered 2668 of which 2194 were kept in the Main Library and the rest in the Departmental Libraries.

103. **Finance:** The usual grant for the Library of Rs. 43,500 and the Departmental grant amounting to Rs. 33,050 were credited to the Library account. The annual interest on investments amounted to Rs. 530.

The accounts of the Library were as usual audited by the Examiner of Local Fund Accounts.

104. The Library is indebted to several Government Institutions, Publishers and individual donors for the free supply of their publications.

105. **Librarianship:** 22 students completed the Diploma Course in Librarianship and 22 earned their diplomas. 20 students have joined the course in the current year.

The Certificate Course in Librarianship was conducted during the months of April, May and June. 20 students joined the course and 19 qualified for the certificate.

106. **Departmental Libraries:** Sri R. Janardhanam, B.A., L.T., D.E. (Oxon), Dip. L.S. (Lond), F.L.A., Librarian, University Library, continues to be in charge of the Departmental Libraries.

One permanent Upper division clerk, and two temporary Library Assistants, who were appointed to catalogue books in the Departmental Libraries, joined duty on 9th May 1955.

The present strength is as follows :—

Upper division clerk	...	1
Library Assistants	...	3
Peons	...	2
Temporary Library Assistants	...	2

107. 745 volumes were added to the Departmental Libraries in the course of the year, as against 837 volumes for the previous year, 2652 current numbers of loose journals indented for by the various departments were also received, the corresponding figure for the previous year being 1989. The Departmental Libraries continue to be used by several college teachers, college students and members of the Madras University Library, in addition to the Teachers and research workers of the University.

108. 6845 books were catalogued from June 1955, involving the preparation of 12,715 catalogue cards and 3,052 book cards. 232 volumes of books and journals were bound during the year.

109. The number of visitors was 4,327 and the numbers of books consulted and lent were 5,246 and 3,525 respectively.

110. 471 old books and periodicals were transferred to the General Library for deposit.

XII. MADRAS UNIVERSITY STUDENTS' INFORMATION BUREAU

111. **Staff :** Mr. G. A. Dharma Rajan continued to be the Secretary of the Bureau for 1955.

112. **Statistics:** During the year there was a total of 3551 enquiries written and oral for information and guidance. 1126 letters were despatched from the department giving information as well as asking for information.

113. **Applications:** Sixty-three applications were forwarded to foreign countries for various types of courses including professional, arts, sciences and technology courses.

114. **Admissions :** Twenty-four admissions were obtained. Those who gained admissions were fully informed and advised regarding conditions of living in the place of study.

115. **Reference Library :** The catalogues and career guidance books continue to be accumulated. 208 new catalogues and books were added.

116. **Competitive Examinations :** Information on competitive examinations held by different agencies was given to students.

117. **Training:** Information on training schemes in India and abroad was given.

118. **Scholarships:** The Bureau worked in co-operation with different agencies for purposes of information on scholarships, assistantships, student loan and other aids to students.

119. **Discussions:** During the year there were 35 discussions with group of students on further studies and careers in different fields of studies.

120. **Liaison:** The Bureau's liaison continued to expand especially with U.S. and Australian Universities. Groups of foreign scholars who visited the Bureau were informed of the work of the Bureau as well as about opportunities in India. Close liaison was kept with Indian missions abroad, the education ministry, the Indian Universities and educational institutions.

121. **Departmental:** The departments of the University were helped with catalogues of foreign universities for comparative study of syllabus and regulations. Guidance notes on Botany, Politics and Librarianship were sent to the departmental heads for approval and improvement.

122. **Compilation:** Information useful for guidance work was compiled from various books, periodicals and advertisements so as to keep the information upto date.

123. **Publications:** A brief summary of opportunities for candidates who have passed the Matriculation and Intermediate examinations was published.

XIII. ENDOWMENTS

124. The Syndicate reports receipt of the following endowments which have been accepted by the Senate during the year:—

The Rama Panicker Medal: An endowment of Rs. 2,000 received from Sri K. B. Nair, Mrs. A. Panicker and Mrs. L. Sivadas, son, wife and daughter respectively of the late Sri I. Rama Panicker, for awarding a medal every year in the name of the late Sri I. Rama Panicker. The medal is to be awarded annually to the candidate who obtains the highest number of marks in Indian Music under Part III—Group (vi) of the B.A. Degree Examination.

The Dr. A. Sreenivasan Gold Medal:— Dr. A. Sreenivasan presented the Syndicate ten gold medals, one to be awarded annually to a candidate who qualifies for the M.B.B.S. Degree securing the highest number of marks in Theory and in the Clinical examination under Part II (b) of the Final M.B.B.S. Examination among the successful candidates of the year, and a sum of Rs. 2,500 to be invested in Government Securities to provide a gold medal for the same purpose after the ten gold medals already presented are awarded.

The Sri K. Nageswara Rao Pantulu Gold Medals: An endowment of a sum of Rs. 10,000 received from Messrs. Amrutanjan Ltd.,

- (a) for the award of a Gold Medal in the name of the late Sri K. Nageswara Rao Pantulu to a candidate who qualifies for the Degree of Bachelor of Pharmacy during the year; and
- (b) for the award of a Gold Medal in the name of the late Sri K. Nageswara Rao Pantulu to a medical Graduate of not more than

five years standing who has contributed a paper on any subject within the Faculty of Medicine which is adjudged as the best contribution of the year.

125. Amounts have also been received from the following for instituting endowments in the University and the same will be reported to the Senate at the next meeting :—

1. A sum of Rs. 10,000 has been received from the Principal, Veterinary College, Madras for instituting the following three prizes and one medal for the encouragement of study of Veterinary Science in the names suggested :—

(a) The Dr. R. Swaminatha Ayyar
Memorial Prize ... Rs. 2,000

(Founded by Sri M. Krishnamurthi,
Retd. Superintending Engineer,
P.W.D., Madras.)

(b) The Sri M. Kullamma Naicker of
Neikarapatti Estate Prize ... Rs. 2,000

(Founded by Sri Janakirama Kullamma Naicker, Zamindar of Neikarapatti).

(c) Rao Bahadur Dr. R. Swaminatha
Ayyar, Memorial Medal ... Rs. 3,000

(Founded by the Madras Race Club
Ltd., Guindy, Madras.)

(d) The Sir Dorab Tata Prize ... Rs. 3,000
(Founded by Sir Dorabji Tata Trust)

2. A sum of Rs. 15,000 has been received from the Secretary and Treasurer, The Dr. S. G. Manavala Ramanujam Memorial Fund for the institution of a Prize in the name of Dr. S. G. Manavala Ramanujam.

3. Rs. 15,000 has been received from Sri R. P. Sethu Pillai, Professor of Tamil, University of Madras, for instituting a lectureship for the encouragement of Research in Tamil language and Literature in memory of his mother Sorna Ammal.
4. Rs. 1,860 has been received from the President, K. Krishna Menon Commemoration Committee for instituting a prize in the name of Sri K. Krishna Menon. The balance of Rs. 140 is awaited for accepting the endowment.
5. The utilization and founding an endowment out of the income from the property bequeathed to the University by the late Sri K. N. Aiya Ayyar, is still under consideration.

126. **Theses Prizes :** The V. C. Rangaswami Memorial Prize was awarded to Sri T. P. Subramanian, for his thesis, 'Industrial Finance in India' which was approved for the M.Litt. Degree.

127. **The Maharaja of Travancore Curzon Endowment Prize :** One thesis was received for this Prize for the year 1954 and the prize was not awarded, as the thesis did not attain the standard required.

One thesis that has been received for the year 1955 is under valuation.

128. The following prizes were not awarded during the year as no theses were received :—

1. The Gokhale Prize.
2. The Sankara Parvathi Prize.
3. The Sir William Wedderburn Prize.

129. The Andhra University Medallion was not awarded during the year as there were no eligible candidates.

130. The Subject for the Ramarayananagar Prize for 1955-56 was "Science and Man". The last date for receipt of theses is 31st August 1956.

XIV. LECTURES

131. Lectures under the following endowments were delivered by the Scholars invited for the purpose during the year. The subjects of the lectures are also noted against each :—

1952-53	Name.	Subject.
1. The Rt. Hon. V. S. Srinivasa Sastri Lectures.	Rajyapal Shri K. M. Munshi, Governor of Uttar Pradesh.	(1) How we framed our Constitution and (2) Sovereignty with special reference to our Constitution.
1954-55		
2. The Maharaja of Travancore Curzon Lectures in Medicine.	Dr. K. Manjunath Rai, Professor of Radiology, Madras Medical College, Madras.	Radio Therapy of some of the common cancers occurring in the Madras State.
3. The Sir Subrahmanya Ayyar Lectures.	Dr. T. V. Mahalingam, Reader in Indian History, University of Madras.	The Nagas in Indian History.
4. The Gokhale Endowment Lectures.	Dr. R. N. Poduval, Deputy Economic and Statistical Adviser, Ministry of Food and Agriculture.	Agricultural Price Policy.

- | 1954-55. | <i>Name.</i> | <i>Subject.</i> |
|---|--|--|
| 5. The Sankara Parvathi Lectures. | Sri T. N. Ramachandran, Dy. Director of Archaeology, Government of India. | The Great Temple of Tanjore. |
| 6. Sir William Meyer Lectures. | Sri R. Sathianatha Ayyar, Professor of History, Annamalai University. | Tamilaham in the Seventeenth Century A.D. |
| 7. The Dr. Elizabeth Mathai Lectures. | Dr. M. K. Krishna Menon, Superintendent, Government Hospital for Women and Children, Madras. | (1) Changing trends in the treatment of Eclampsia, (2) Caesarian Sections then and now and (3) Some aspects of anaemia in Pregnancy. |
| 8. The Dr. Sir A. Lakshmanaswami Mudaliar Lectures. | Dr. T. N. A. Jeffcoate, Department of Obstetrics and Gynaecology, University of Liverpool. | (1) Stress incontinence of Urine and (2) Afibrinogenaemia in Pregnancy. |
| 9. The Dr. Todla Ekambaram Lectures in Botany. | Dr. K. Kadambi, Conservator of Forests, Shimoga. | Physiologico-ecological conditions in the tropical forests of India. |
| 1955-56 | | |
| 10. The Maharaja of Travancore Curzon Lectures in Medicine. | Dr. J. A. S. Masilamani, Honorary Physician, Government General Hospital, Madras. | Dyspepsias in General Practice. |

1955-56.	Name.	Subject.
11. The Maharaja of Travancore Curzon Lectures in Agriculture.	Sri S. V. Parthasarathy, Sugarcane Specialist, Parur.	The Problems of Sugar and Sugarcane Industry in India.
12. The Sir Subrahmanya Ayyar Lectures.	Dr. T. R. Seshadri, Head of the Department of Chemistry, University of Delhi.	Chemistry of the Polyporic and Pulvinic acid derivatives.
13. The Principal Miller Lectures.	Sri P. Chenchiah (Retired Chief Justice).	The Destiny of Man an interpretation of History.
14. The Sundaram Ayyar-Krishnaswami Ayyar Lectures.	Sri C. S. Subrahmanya Ayyar, Advocate, Madras.	The Law of Emergency as declared (a) Constitutional provisions, (b) Ordinary Legislation and (c) Judicial Decisions, a comparative study.
15. The Father P. Carty Lectures.	Sri J. B. Saunders, Professor of Economics, Madras Christian College, Tambaram.	The theory of Economic Development.

132. **Vacation Lectures :** Vacation lectures for the benefit of teachers were arranged in the following centres in consultation with the Director of Public Instruction :—

Sri P. Kochunni Panicker, M.A., L.T., Principal, Government Victoria College, Palghat, delivered a course of six lectures on the teaching of Social Studies at Mangalore.

Sri S. Arumugha Mudaliar, M.A., L.T. of the Teachers' College, Saidapet, delivered five lectures on the teaching of the mother-tongue at Salem.

Sri T. Sankara Pillai, M.A., L.T. of the Teachers' College, Saidapet, delivered six lectures on the methods of teaching of the Social Studies at Kozhikode.

XV. ACCOUNTS

133. The Accounts of the University including those of the University Library for 1954-55 were prepared under Section 21 of the Madras University Act and audited by the Examiner of Local Fund Accounts, Madras.

134. The University Grants Commission sanctioned the following recurring and non-recurring grants to the University during the year :—

Recurring :—

	Rs.
Alagappa Chettiar College of Technology, Guindy ...	72,000
(Chemical Engineering Section 40,000, Textile Technology Section 32,000)	

For the salaries of Teachers in certain Departments of the University (one Reader each in the Departments of Organic-Chemistry, Botany and Statistics and one lecturer each in the Departments of Bio-Chemistry & Zoology and one Lecturer in Ore Dressing (Chemical Technology).

{ 25,200
2,535

Non-Recurring :—

For Library books and Journals for Post-Graduate Teaching and Research in all Science Departments ...	40,000
For Library books on Humanities and Social Sciences ...	30,000
For the purchase of equipment under the scheme of develop- ment of Science Departments in the University—Physics, Organic Chemistry, Bio-Chem- istry, Botany, Zoology and Geology and Geophysics— against Rs. 2,65,000 sanc- tioned ...	1,41,265
For grant of personal allowance to Teachers of the University for 8 months from 1st July 1954 ...	18,758

135. Particulars of grants received from the Government of India are :—

	Rs.
For the preparation of Catalogus Catalogorum of Sanskrit manuscripts-grant for 1953-54 ...	300
For the Department of Psychology— under the Five-year plan of Educational Development Scheme for research Fellow- ships ...	3,600

RS.

For Individual Research Workers for Fundamental Research— Dr. G. Krishnan, Reader in Zoology—Rs. 4,000, Dr. M. Santhappa, Reader in Physical Chemistry Rs. 5,000.	9,000
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136. The Government of India has also sanctioned the payment of grants through the University, to certain Professors in Loyola, Presidency and Madras Christian Colleges for Fundamental Research amounting in all to Rs. 18,000 and to St. Joseph's College, Tiruchirapalli, Women's Christian College, Madras, and Mahajana College, Erode under Youth Camps and Labour Service and Youth Welfare Programme respectively. (Rs. 1,890, Rs. 395 and Rs. 3,000).

137. Particulars of Receipts and Expenditure under the University Fee Fund Account for the year 1954-55 are as shown below :—

<i>Receipts.</i>	RS.	RS
A. General Administration.	4,60,243	
B. Examination Fees ...	21,14,157	
	<u> </u>	25,74,400
 <i>Expenditure.</i>		
A. General Administration Charges ...	8,36,083	
B. Examination Charges ...	12,74,935	
	<u> </u>	21,11,018

138. As in previous years contributions were made during the year to the Inter-University Board, India (Rs. 2,250), the Association of the Universities of the British Commonwealth (Rs. 2,404), National Cadet Corps (Rs. 8,700), University Union (Rs. 12,000), Inter-University Sports and Tournaments (Rs. 20,000) and to certain Scientific Associations and Journals (Rs. 4,000).

139. A sum of Rs. 6,51,000 was sanctioned by the State Government towards the annual recurring grant-in-aid of the general resources of the University and this has been allocated to the different Departmental accounts, as shown below :—

	RS.
Fee Fund Accounts ...	3,000
Vice-Chancellor's Salary Account ...	26,000
Travelling Allowance Account ...	40,000
Library Account ...	43,500
Research and Development Account.	3,000
Students' Information Bureau Account.	3,000
Economics Department Account ...	30,000
Indian History Department Account.	30,000
Mathematics Department Account ...	25,000
Statistics Department Account ...	6,000
Indian Philosophy Department Account ...	12,000
Psychology Department Account ...	9,000
Geography Department Account ...	8,800
Legal Studies Department Account ...	12,500
Physics Department Account ...	54,000
Chemistry Department Account ...	63,000
Botany Department Account ...	20,000
Zoology Department Account ...	50,000
Geology and Geophysics Depart- ment Account ...	40,000
Oriental Research Institute Account ...	87,200
Alagappa Chettiar College of Techno- logy Account ...	85,000
	<hr style="border-top: 1px solid black; border-bottom: 1px solid black; height: 3px; width: 100%;"/>
	6,51,000
	<hr style="border-top: 1px solid black; border-bottom: 1px solid black; height: 3px; width: 100%;"/>

140. As the grant received from Government was not sufficient for the maintenance of some of the Departments, the following contributions from the University Funds were made during the year :—

	RS.
Chemistry Department Account ...	20,000
Botany Department Account ...	25,000
Psychology Department Account ...	12,000
Legal Studies Department Account ...	30,000
Geography Department Account ...	15,000
Oriental Research Institute Account ...	10,000
Travelling Allowance Account ...	50,000
Alagappa Chettiar College of Technology Account ...	2,00,000

141. A new account, 3. B. Government of India, U.G.C. and Special Grants Account was opened during the year, to show the transactions for the grants received from the Union Government, University Grants Commission, etc.

142. Government Securities, Ten Year Treasury Savings Deposit Certificates and Debentures in the Madras Central Co-operative Land Mortgage Bank, Limited of the total face value of Rs. 5,39,400 were purchased during the year in respect of certain Departmental accounts of the University.

143. The Financial Estimates of the University for the year 1954-55 were approved by the Senate at its annual meeting held on the 15th March 1955.

XVI CONCLUSION.

144. The Syndicate records its appreciation of the good work done by the Registrar, Deputy Registrar and

the staff as also the Librarian and the Teachers of the University during the year.

145. The Syndicate wishes to record its appreciation of the good work done by the Colleges which has largely contributed to the successful working of the University for the year.

146. In particular the Syndicate wishes to convey to the Principals of Colleges and the Boards of Managements of all Colleges their sincere appreciation and thanks for their hearty co-operation with the University authorities in all their endeavour to ensure the efficient and successful working of the University.

APPENDIX A

List of Colleges which have been granted further or fresh recognition/affiliation/approval, from the academic year 1955-56.

ARTS AND SCIENCE

Government Colleges

(Further affiliation)

<i>Name of the College.</i>	<i>Subjects and courses of affiliation.</i>
1. Government Arts College, Coimbatore.	Intermediate, Part III—Hindi (Higher Standard).
2. Government Victoria College, Palghat.	B.A., Part III—Group (v)—Sanskrit as related language.
3. Raja's College, Pudukkottai.	Intermediate, Part III—Elements of Commerce and Accountancy.
4. Government Arts College, Mangalore.	Intermediate, Part III—Elements of Commerce and Accountancy.

Aided and other Colleges

(Further affiliation)

5. Ethiraj College for Women, Madras.	Intermediate, Part III—Psychology and Logic.
6. Sir Theagaraya College, Madras.	B.A., Part III—Group (iv-a)—History and Economics.
7. St. Agnes' College, Mangalore.	Intermediate and B.A., Part II—Hindi.
8. St. Xavier's College, Palayamkottai.	B.Sc., Part II—Chemistry (Main) and Physics and Mathematics (Subsidiary Subjects).
9. Sacred Heart College, Thevara.	B.Com., Part III—Co-operation in lieu of Transport. B.A. Group (v)—Malayalam. Diploma in Social Service.
10. St. Mary's College, Tuticorin.	Intermediate and B.A., Part II—French.

- | <i>Name of the College.</i> | <i>Subjects and courses of affiliation.</i> |
|---|--|
| 11. St. Thomas' College, Trichur. | B.A., Part III—Group (i-c)—Statistics. |
| 12. Sree Kerala Varma College, Trichur. | B.A., Part III—Group (ii)—Botany (Main) and Chemistry (Subsidiary).

B.Sc., Part II—Chemistry (Main) and Mathematics, Physics and Botany (Subsidiary Subjects). |
| 13. St. Mary's College, Trichur. | B.A., Part III—Group (ii)—Botany (Main) and Chemistry (Subsidiary) |
| 14. Stella Maris College, Madras. | B.Mus. |
| 15. Sri G. V. G. Visalakshi College for Women, Udamalpet. | B.A., Part I—English
Part II—Tamil, Hindi and Malayalam.
Part III—Group (i-b)—Mathematics.

Group (iv-a)—History and Economics.

Group (iv-b)—Economics and History. |

New Colleges

(Fresh affiliation)

16. The S.I.E.T. Women's College, Madras. Intermediate, Part I—English.
Part II—Arabic, Persian, Urdu, Tamil, Telugu, Malayalam and Hindi.

Part III — Mathematics, Physics, Chemistry, Natural Science, Ancient History, Modern History, Indian History, Islamic History and Culture, Logic and Psychology.

- | <i>Name of the College.</i> | <i>Subjects and courses of affiliation.</i> |
|---|---|
| 17. Khadir Mohideen College, Adirampattinam. | Intermediate, Part I—English.
Part II—Tamil, Sanskrit, Hindi and Urdu
Part III — Mathematics, Indian History, Modern History, Islamic History and Elements of Commerce & Accountancy. |
| 18. Little Flower College, Mammiyoor, Guruvayur. | Intermediate, Part I—English
Part II—Malayalam and Hindi.
Part III — Indian History, Modern History and Logic. |
| 9. Anbanathapuram Vahaira Charities College, Mayuram. | Intermediate, Part I—English.
Part II—Tamil and Sanskrit.
Part III — Mathematics, Elements of Commerce & Accountancy, Psychology, Logic, Modern History and Group (D)—Tamil. |
| 20. Government Arts College, Ooracamund. | Intermediate, Part I—English.
Part II — Tamil and Hindi.
Part III — Mathematics, Modern History, Indian History, Logic, Psychology and Elements of Commerce & Accountancy. |

<i>Name of the College.</i>	<i>Subjects and courses of affiliation.</i>
21. The Raja Serfoji College, Tanjore.	Intermediate, Part I—English. Part II—Tamil and Sanskrit. Part III — Mathematics, Physics, Chemistry, Natural Science, In- dian History, Modern History, Logic, Psy- chology and Elements of Commerce & Ac- countancy.

Professional Colleges

(Further affiliation)

22. College of Engineering, M.Sc. in Public Health Engineering.
Guindy.

(Fresh affiliation)

- | | |
|---|------|
| 23. Government Training
College, Kumarapala-
yam. | B.T. |
| 24. Government Training
College, Pudukottai. | B.T. |
| 25. Vivekananda Training
College, Thiruppala-
thurai. | B.T. |
| 26. V. O. Chidambaram
Training College, Tuti-
corin. | B.T. |
| 27. Government Training
College, Vellore. | B.T. |

Oriental Title Institutions

(Further approval)

28. Sri Nilakanta Sanskrit Vidvan 2 (b)—Malayalam and Sanskrit.
College, Pattambi (S.
Malabar).

(Fresh approval)

- | | |
|--|-----------------|
| 29. Sullam-us-Salam Arabic
College, Areacode (S.
Malabar). | Afzal-ul-Ulama. |
| 30. Madarasa Jamalia,
Madras. | Do. |
-

APPENDIX B

Statement of the number of candidates who appeared for and passed the examinations and the number that qualified for the Degrees, Titles, Certificates and Diplomas of the University during the year 1955:—

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	September.	March/July	September	March	Sep.
	Arts and Science:					
Matriculation † ...	1,614	..	512	...	512	..
Intermediate* ...	19,478	8,520	10,346	2,407	10,201	2,018
B.A.—Part I ...	4,562	2,017	2,610	1,019	} 2,317	1,065
B.A.—Part II ...	3,745	705	3,177	541		
B.A.—Part III ...	4,195	1,100	2,771	473		

† The figures in the last two columns for Intermediate and B.A. indicate the number of candidates who have qualified for the certificate or Diploma by passing the whole examination and those who have completed by passing Part or Parts of the examination.

* Details of number of candidates for the whole examination and under each part:

	Appeared.			Passed	
	Mar.	Sep.		Mar.	Sep.
Whole Examination ..	14,653	1,496	...	8,435	145
in Part I ...			...	2,439	398
in Part II ...			...	4,464	880
in Part III ...			...	963	62
Part I ..	1,646	3,935	...	372	1,234
Part II ..	434	1,104	...	250	767
Part III ..	4,207	4,513	...	1,462	1,452

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
B.Sc.—Part I ...	1,778	643	1,234	399	...	...
B.Sc.—Part II ...	2,065	675	1,140	181	1,077	227
B.A. (Hons.)—Preliminary	518	111	411	95	...	...
Do. Final ...	416	...	409 +6*	...	409 +6*	...
M.A. ...	252	...	205	...	205	...
M.A. in Science Subjects	61	...	55	...	55	...
B.Sc. (Hons.)—Part I ...	107	23	84	21	...	...
Do Part II (Main)	91	...	89+2*	...	89+2*	...
Do. Do. (Subsy.)	89	2	87	1	...	...
M.Sc. (by Examination)	42	...	38	...	38	...
Teaching :						
B.T. (New Regulations) (Written).	821	176	633	87	} 633	89
B.T. (New Regulations) (Practical).	728	14	723	14		
B.T.—Shortened Course (Written).	30	22	29	17	} 27	17
B.T.—Shortened Course (Practical).	32	22	31	22		
M.Ed. ...	28	...	22	...	22	...
Law :						
F.L. ...	794	206	449	113	449	113
B.L. ...	789	306	416	141	416	141
M.L. ...	30	...	3	...	3	...

* Recommended for the respective Pass Degree.

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Medicine						
First M.B. & B.S.— Part I (O.R.)	..		..
" (N.R.)	196		132			
First M.B. & B.S.— Part II (O.R.)	14		11			
Second M.B. & B.S.— Part I (O.R.)	76		58			
Second M.B. & B.S.— Part II (O.R.)	208		134			
" (N.R.)	112		66			
Final M.B. & B.S.— Part I (O.R.)	208		138			
Final M.B. & B.S.— Part II (O.R.)	332		162		161	
M.D. (N.R.)	51	..	5	..	5	..
M.S. (N.R.)	..	50	..	6	..	6
M.Sc. (Agriculture)	..	4	..	3	..	3
M.Sc. (Anatomy)	..	2	..	..	..	..
M.Sc. (Physiology)	..	1	..	1	..	1
M.Sc. (Veterinary Science Parasitology)	..	1	..	1	..	1
" (Animal Genetics)	..	..	1	..	1	..
M.Sc. (Pharmacology)	..	..	1	..	..	..
M.Sc. (Pharmacy)	..	..	1	..	..	..
M.Sc. (Technology)	..	..	1	..	..	..
M.Sc. (Engineering)	..	..	1	..	1	..
Ph.D. (Medicine)	..	1	..	1	..	1
D.G.O.	..	15	21	9	13	21
D.O.	..	2	3	2	2	2

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate.	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Medicine—(contd.)						
D.L.O.—Part I ...	5	2	3	2	...	...
D.L.O.—Part II ...	4	6	3	5	3	5
D.V. ...	2	1	2	1	2	1
Diploma in Radiology Part I	5	...	5	...	...	...
B.S.Sc.—Part I ...	6	...	4	...	...	...
B.S.Sc.—Part II ...	4	1	3	...	3	...
B. Pharmacy-Preliminary	13	...	6	...	...	...
B. Pharmacy-Final-Part I	12	...	6	...	...	...
B. Pharmacy-Final-Part II	17	...	9	...	9	...
First B.D.S. ...	19	...	9	...	...	...
Second B.D.S. ...	6	...	4	...	...	...
Inter. Science in Nursing	12	...	12	...	12	...
B.Sc. (Nursing) ...	10	3	7	3	7	...
Diploma in Tuberculosis	7	...	5	...	5	...
Technology						
B.Sc. (Tech.)—Part I ...	56	...	39	...	...	...
B.Sc. (Tech.)—Part II ...	49	...	40	...	40	...
Engineering						
First B.E. ...	457	164	290	126	290	126
Second B.E. ...	566	321	246	221	246	221
Third B.E. ...	476	201	294	132	294	132
B.E. Final ...	374	115	265	66	262	64

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Agriculture						
B.Sc. (Ag.)-First Examn.	109	35	72	33	72	33
B.Sc. (Ag.)—Second Examn.	110	36	75	32	75	32
B.Sc.-(Ag.) Final Examn.	97	..	88	..	88	..
Veterinary Science						
B.V.Sc.—Preliminary ...	82	44	36	31	36	31
B.V.Sc.—Intermediate—Part I.	91	60	30	42	..	..
B.V.Sc.—Intermediate—Part II.	67	42	25	33	25	33
B.V.Sc.—Final—(New Regulations).	87	..	46	..	46	..
Commerce						
B.Com.—Part I ..	894	345	605	195	} 486	236
B.Com.—Part II ..	885	211	675	139		
B.Com.—Part III ..	1,125	428	562	196		
B.Com. (Hons.)—Part I	37	9	29	9	..	..
B.Com. (Hons.)—Part II	39	..	39	..	39	..
Oriental Learning						
B.O.L.—Part I ..	48	36	26	22	..	..
B.O.L.—Part II ..	43	15	24	9	22	10
Oriental Titles						
Preliminary ..	713	..	376	..	..	..
Final ..	612	..	421	..	421	..
Entrance Test to Oriental Title Course.	745	..	491	..	..	..

Examination.	No. Examined.		No. Passed.		No. qualified for Degree or Title or Diploma or Certificate	
	March/July	Sep./Dec.	March/July	Sep./Dec.	March	Sep.
Oriental Titles—(contd.)						
Entrance Test to Intermediate—Group-D.	182	...	59	..	..	..
Sangita Siromani—Final	..	..	..	..	..	..
Certificates and Diplomas						
Certificate in Modern European Languages—						
French ..	24	..	16	..	16	..
German ..	34	..	24	..	24	..
Diploma in Modern European Languages—						
French ...	8	..	8	..	8	..
German ...	15	..	11	..	11	..
Diploma in Economics...	4	..	3	..	3	..
Diploma in Indian Music	8	..	8	..	8	..
Diploma in Politics and Public Administration.	12	..	10	..	10	..
Certificate in Librarianship.	21	..	21	..	21	..
Diploma in Librarianship	22	..	22	..	22	..
Diploma in Statistics ...	19	..	17	..	17	..
Diploma in Journalism—1955	8	..	2	..	2	..
Certificate in Anthropology.	1	..	1	..	1	..
Diploma in Anthropology	6	..	6	..	6	..
Diploma in Physical Education	51	..	50	..	50	..
Diploma in Social Service	39	..	28	..	28	..
Diploma in Horticulture	..	..	..	..	..	..
Total ...	51,876	16,646	31,369	6,845	19,372	4,615

APPENDIX C

Names of persons who submitted theses during 1954-55 and have been declared qualified for Research Degrees.

Master of Letters.

(M. Litt.)

Revised Regulations.

1. Miss A. K. Srimathi, B.A. (Hons.), for her thesis,
“ A study of some inmates of the Madras
Vigilance and Rescue Homes with special
reference to their personality structure”.
- *2. Mr. T. P. Subramonian, M.A., for his thesis,
“ Industrial Finance in India”.
- *3. Mr. R. Ravi Varma, B.A. (Hons.), for his thesis,
“ Consumers Co-operative movement in Madras
State ”.
4. Sry. Sara Kasturi Cornelius, M.A., for her thesis,
“ Industrial Welfare in Organised Industries
in Madras State, since 1940 ”.
5. Mr. M. Suryaprakasa Rao, B.A. (Hons.), for his
thesis, “ Tax Structure in India ”.
6. Mr. N. Pattabhiraman, M.A., for his thesis,
“ Trade Unionism in India ”.
7. Miss M. S. Ramesh, B.A. (Hons.), for her thesis
“ Taxation of Income in India.”
8. Miss Meera Rao, M.A., for her thesis, “ Interna-
tional Economic Co-operation. ”

Old Regulations

9. Mr. K. V. Sridharan, B.A. (Hons.) for his thesis,
“ Industrial Relations in India with special
reference to Madras ”.

* Candidates who submitted theses during 1953-54 but declared
qualified during 1954-55.

10. Mr. K. Kunhi Kannan Nayar, M.A., B.T., for his thesis, "The Agricultural Economy of Malabar".

Doctor of Philosophy.

(Ph.D.)

Revised Regulations

1. Mr. S. R. Sivaraja Iyer, M.Sc., for his thesis, "Colloid Optics".
2. Mr. K. S. Viswanathan, M.A., for his thesis, "The Theory of Vibrations with special reference to Molecules and Crystals".
- *3. Mr. K. Nagarajan, B.Sc. (Hons.), for his thesis, "Part I—Synthetical Experiments in the Aporphine Series. Part II—Chemical Investigation of Tylophora Asthmatica".
- *4. Mr. P. T. Narasimhan, M.Sc., for his thesis, "Studies in Dielectrics".
5. Mr. N. Arumugam, M.A., for his thesis, "Chemistry of Phenanthridine Compounds".
6. Mr. N. S. Narasimhan, B.Sc. (Hons.), for his thesis, "Experiments towards the Synthesis of Carpaine, Carpanic Acid and their analogue".
7. Mr. V. J. Paul, M.Sc., for his thesis, "Study of the Chemical Structure of the Main Phenolic Constituents of Indian Cashewnut Shell Liquid Anacardic Acid and Cardol".
8. Mr. T. S. Viswanathan, M.Sc., for his thesis, "Adsorption of Gases on Catalyst Surfaces".

* Candidates who submitted theses during 1953-54, but declared qualified, during 1954-55.

9. Mr. S. Soundrarajan, M.Sc., for his thesis, "Dielectrics: Dipole Moments and Molecular Structure of Organic Compounds".
- *10. Mr. V. Agnihotrudu, M.A., for his thesis, "Soil conditions and Wilt Diseases in Plants. Rhizosphere Microflora in relation to Fungal Wilts".
11. Mr. S. Krishnaswami, M.Sc., for his thesis, "Studies on the Copepods of Madras".
12. Miss K. K. Sarojini, M.A., for her thesis, "Contribution to the study of certain estuarine Fishes".
13. Mr. K. N. Parameswara Iyer, M.Sc., for his thesis, "Studies on Enhydris Dussumieri (Smith)".
14. Mr. A. Daniel, M.Sc., for his thesis, "Studies on the Barnacles of Madras".
- *15. Mr. C. E. Mathew, B.Sc. (Tech.), for his thesis, "Investigation on some of the Indian Tanning Materials".
16. Mr. D. Krishnamurti, M.A., for his thesis, "Investigation on Raman and Infra-red Spectra (with supplementary papers)".
17. Mr. V. M. Sivaramakrishnan, B.Sc. (Hons.), for his thesis, "The Influence of certain Vitamins on Nitrogen Metabolism."

Old Regulations.

18. Mr. M. A. Durairangaswami, M.O.L., M.A., for his thesis, "The Religion and Philosophy of Tevaram with special reference to Sundarar".

* Candidates who submitted theses during 1953-54, but declared qualified during 1954-55.

19. Mr. G. V. Krishnayya, B.A., for his thesis, "Literature and its value in life with special reference to Kalapurnodayam".
20. Mr. G. Satyanarayana, B.Sc. (Hons.), for his thesis, "Soil Conditions and Wilt of cotton—with special reference to Host Physiology".
21. Mr. R. Venkatesvara Rao, M.Sc. for his thesis, "Essential Amino Acids in Milk and Milk Products.

Master of Science

(M.Sc.)

Revised Regulations.

1. Mr. M. S. Sundararajan, B.A. (Hons.), for his thesis, "Autoregressive Time Series and Allied Problem".
- *2. Mr. K. V. Rajagopalan, B.Sc. (Hons.), for his thesis, "Investigation of Shark and other fish liver residues".
- *3. Mr. N. Raghuvver Moudgal, B.Sc., for his thesis, "Biochemistry of Iodo-proteins".
4. Mr. M. S. Venkatachalapathi, B.Sc., for his thesis, "Synthesis of Heterocyclic Compounds".
5. Mr. R. Santhanam, B.Sc. (Hons.), for his thesis, "Aromatisation of Terpeneol in the liquid and vapour phases".
6. Mr. M. Leo Xavier, B.Sc. (Hons.), for his thesis, "Catalytic Dehydrogenation of 3-Carene from India Turpentine Oil of Pinus Longifolia (Roxb.) over gamma—Alumina—Chromia Catalysts".

*Candidates who submitted theses during 1953-54, but declared qualified during 1954-55.

7. Mr. S. Natarajan, B.Sc., for his thesis, "Carbon Nitrogen Metabolism of Species".
8. Mr. R. Sundararaghavan, B.Sc. (Hons.), for his thesis, "Morphological and Cytogenetical Features of *Saccharum Robustum* and its inter-specific and inter-generic Hybrids".
9. Mr. Mohamed Ather Ali, B.Sc., for his thesis, "Studies on Madras Sponges".
10. Miss Ruby Devanesan, B.Sc., for her thesis, "Studies on the Sinus Gland of Crustacea and Siphonophora of Madras".
11. Mr. S. Kannan, B.Sc. (Hons.), for his thesis, "Soil Helminths of Madras City with special reference to Nematodes".
12. Mr. A. V. Sankaran, M.A., for his thesis, "Geology around Pangadi—West Godavari District".
13. Miss. V. Sitalakshmi, B.Sc. (Ag.), for her thesis, "Some Diseases of Crop plants caused by Pythiaceous fungi in the Madras State".
14. Mr. T. R. Subrahmanyam, B.Sc. (Ag.), for his thesis, "Studies on Systematics on Biology of some Weevil pests (*Curculionidae*) of South India".
15. Mr. N. V. Sundaram, B.Sc. (Ag.) for his thesis, "Study of rusts occurring in the Neighbourhood of Coimbatore".
- *16. Mr. S. D. Kanaka Raj, B.Sc. (Ag.), for his thesis, "South Indian Aphididae".
- *17. Mr. S. Balaram, B.E., for his thesis, "Antennas—Special Types (Circular Antennas)"

*Candidates who submitted theses during 1953-54, but declared qualified during 1954-55.

- *18. Mr. M. G. Subba Rao, B.Sc. (Tech.), for his thesis, "Studies in Filtration".
19. Mr. R. Jayanthan, B.Sc. (Hons.), for his thesis, "Studies in Band Spectra of Diatomic Oxides of Cerium Samarium and Columbium."
20. Mr. T. M. Swaminathan, M.A., for his thesis, "Studies in the Band Spectra of the Diatomic Molecules of Molybdenum, Neodymium and Thallium".
21. Mr. T. S. Ranganathan, B.Sc. (Tech.) for his thesis, "Study of the Chemistry and Mechanism of Combination Tannages and the properties of Leathers produced by them."
- *22. Mr. D. Dethu Rao, B.Sc. for his thesis, "Studies on Dipole Moments."
23. Mr. S. K. Srinivasan, B.A. (Hons.), for his thesis. "Some applications of Stochastic Theory to Physical problems."
24. Mr. V. Vittalachar, M.A. for his thesis, "Studies in Band Spectra of Thungsten and Molybdenum Oxide."
25. Mr. T. S. Santhanakrishnan, B.Sc., for his thesis, "Studies on Longifolene—Catalytic cracking of Longifolene."
26. Mr. K. Sivarama Sastri, B.Sc. (Hons.), for his thesis, "Studies on Ascorbic Acid."
27. Mr. K. Periaswami Gounden, B.A., for his thesis, "Studies on the Anononcae Embryology of *Gananga Odorata* and *Miliusa Wighetiana*"
28. Mr. A. Krishnakumaran, for his thesis, "Studies on the Cuticle of Crustacea."

* Candidates who submitted theses during 1953-54 but declare qualified during 1954-55.

29. Mr. K. Viswanathan, B.E., for his thesis,
“ Analysis of some Transistor Circuits,”

Old Regulations.

- *30. Mr. R. S. Raman, B.Sc. (Tech.), for his thesis,
“ Sedimentation Analysis in a Centrifugal
field”.

Faculty of Medicine.

31. Mr. T. R. Krishnamurti, M.B.B.S. for his thesis,
“ Comparison of Actions (other than Antihista-
mine of some Antiallergic compounds-Phener-
gen, Anthisan, Luvistine and Antistine.”

Faculty of Veterinary Science

- *32. Mr. V. S. Alwar, B.V.Sc., for his thesis,
“ Studies on Surra in Madras ”.
- *33. Mr. U. Ramakrishnananda Rao, B.V.Sc., for his
thesis, “ Studies on Pasteurella, Septica ”.
- *34. Mr. P. R. Nilakantan, B.V.Sc., for his thesis,
“ Studies on Blackquarter ”.
35. Mr. R. Bhaskaran, B.V.Sc., for his thesis, “ Studies
on Trypanosomia and Trypanosomiasis in Farm
animals of India ”.
36. Mr. A. Suryaprakasa Rao, B.V.Sc., for his thesis,
“ Studies on the physico-pathology of Re-
production in Bovines.”

* Candidates who submitted theses during 1953-54 but declared
qualified during 1954-55.

APPENDIX D.

Reports of work of the Teaching and Research Departments for 1955.

I. DEPARTMENT OF INDIAN ECONOMICS

I. Staff :

Professor :

Sri R. Balakrishna, M.A., Ph.D. (Lond.)

Reader : Vacant.

Lecturer :

Sri D. Bright Singh, M.A., Ph.D.

II. General :

The primary pre-occupation of the Professor during the year was the preparation of the Second Five-year Plan for India with which he was associated by being made a member of the Panel of Economists and of the Standing Committee of the Panel by the Planning Commission at the beginning of the year. He prepared five technical papers on the subject, which were discussed at the various meetings of the Panel of Economists convened by the Planning Commission. The other topic of importance was the Report (in 3 volumes) of the Taxation Enquiry Commission of the Government of India. He delivered a course of Inter-collegiate lectures on the subject of Taxation. The Professor was also engaged in assessing the benefits to India of her membership of the Sterling Area in the context of post-war economic stabilization and prepared a paper on it.

The Lecturer made good progress with his projected work on 'Price Trends in India, since 1939'. He attended the Advanced Refresher Course in Economics held at Poona under the auspices of the Indian and the International Economic Associations.

III. Works and Articles published during the year:

Professor:

1. Recent Trends in Indian Finance—Book published by the University of Madras. (Sir William Meyer Lectures, 1953-54).
 2. Investment in the Public Sector.
 3. Common Production Programme for Small and Large Scale Industries.
 4. Planning Technique.
 5. Planning Technique and the Indian Plan Frame ("Commerce Annual Review Number", December 1955).
 6. ECAFE and Economic Development of South-East Asia (in collaboration with the Lecturer) (Indian Year Book of International Affairs, 1954, Madras University).
- } Published by the Planning Commission in "Papers Relating to the Formulation of the Second Five-year Plan", 1955.

Lecturer:

- ECAFE and Economic Development of South-East Asia (in collaboration with the Professor) (Indian Year Book of International Affairs, 1954, Madras University).

IV. Works completed during the year :

Professor :

1. The Progress in Production Technique and Structure of Capital Goods Industries.
 2. Rationalization of Industrial Technique and Equipment.
- } To be published by the Planning Commission

3. India and the Sterling Area. (to be published in the Indian Year Book of International Affairs, 1955, Madras University).
4. The Chapter on 'Finance of Planning and an Appendix to the Chapter on 'Tax Reform' of his book 'Recent Trends in Indian Finance.'

Lecturer :

1. Five chapters of his projected book 'Price Trends in India.'
2. Foreign capital in India. (Article to be published in the Journal of Madras University—Humanities)

V. Topics on which Research work is in progress:

Professor :

Economic Development of Under-Developed Areas.

Lecturer :

Two chapters of his book 'Price Trends' in India."

VI. Research Students:

Six research students submitted their theses during the year, five for M. Litt. and one for Ph.D. Two of the candidates who supplicated for the M.Litt. Degree have been declared qualified. Three others who had submitted theses in the previous year were also declared qualified for the Degree of M.Litt. The results of others are awaited.

The following are the titles of the 6 theses submitted for Research Degrees during the year:—

1. The Indian Public Debt since 1919—for Ph.D.
2. International Economic Co-operation—for M. Litt.

3. Trade Unionism in India—for M. Litt.
4. Foreign Trade of India from 1939—for M. Litt.
5. The Capital Market in India—for M. Litt.
6. Agricultural Economy of Malabar—for M. Litt. (Resubmitted)

Three probationary students were admitted during the year, but only one is continuing. His subject of research is "Land Utilization in the Madras State".

One non-stipendiary student left the Department after completing two years of research. Two fresh non-stipendiary students were admitted during the year. They are working on the following subjects:—

1. Agricultural Prices in India, since 1938.
2. The Co-operative Movement in India with special reference to Madras.

VII. Diploma Courses and Other Lectures:

In the Diploma Course in Economics there are 9 students in the first year and 8 students in the second year. Besides, there are 8 students attending the class in 'Statistical Methods.' Of the 3 students who applied for the Diploma in Economics Examination in July 1955, 2 passed.

For the Diploma in Journalism Examination, 1955, 8 students applied and 2 qualified for the Diploma. During the year, 9 students were admitted to the course and all of them have sent their applications for the Diploma Examination to be held in January 1956.

The Lecturer delivered 3 lectures a week to the Diploma course in Economics and in Politics and Public Administration. Mr. S. Velayutham, Visiting Lecturer delivered 3 lectures a week till April and 2 lectures a week from September to the Diploma classes.

The Professor delivered two lectures a week to the B.Sc. (Tech.) class at the A. C. College, Guindy. He delivered a course of 8 special lectures to the Diploma Course in Journalism. He delivered 4 Inter-collegiate lectures, two on 'Under-Developed Areas' and two on 'Tax Structure in India'.

VIII. Ford Foundation :

The Ford Foundation is giving a grant of \$ 52,200 over a period of 4 years to the University for carrying out an expanded programme of training in methods of Applied Social Science Research. The scheme prepared by the Professor has been accepted by the Ford Foundation, and arrangements are being made to implement it from the beginning of January 1956.

IX. Research Units of the Government of India :

(1) Agro-Economic Research Unit.

This Unit was expanded with effect from 1st April 1955 with the raising of the grant from Rs. 30,000 to Rs. 45,000 a year. Additional staff were recruited and the work of the Unit was further intensified. Village surveys were conducted in the four States of Madras, Andhra, Mysore and Travancore-Cochin and by the end of December 1955, 15 villages were surveyed in the four States. In addition to survey work, the Unit is also engaged in fundamental research in Agricultural Economics, such as studies of the 'Measures of Food Control and their Effects on the Agrarian Economy' and 'The Economics of Irrigation'. On the former, seven chapters have already been written after collection of data from Government records and from field enquiry. In connection with the latter, material is being collected from the records of the Irrigation Department of the Madras State. The Unit also prepared reports, at the

instance of the Ministry of Food and Agriculture; on certain legislative measures affecting agriculture, such as the Travancore-Cochin Land Reform Bills, Betterment Levy Act of the Madras State and the Agricultural Income-Tax Act of Mysore.

A study of the working of co-operative farming societies in Madras, Andhra, Mysore and Travancore-Cochin States has recently been undertaken. An *ad hoc* enquiry into the conditions of labour employed in some of the development projects in Madras State was done under instructions from the Ministry of Food and Agriculture.

The Professor of Economics continued as the Ex-officio Hon. Director of the Unit and Mr. C.W.B. Zacharias continued to be its Deputy Director.

There is a possibility of a further expansion of the Unit under the Second Five-year Plan. A scheme for the purpose has already been submitted by the Professor of Economics to the Ministry of Food and Agriculture through the University.

(2) *Studies in the Economics of Farm Management.*

These studies entrusted to the Agro-Economic Research Unit were completed for the year 1954-55 and they were extended for another year by the Research Programmes Committee with a grant of Rs. 82,500 for the purpose. An interim Report for 1954-55 was submitted to the Central Committee of Direction in July 1955 and the final Report was prepared in December 1955.

A special feature of this enquiry for 1956-57 is the conducting of crop cutting experiments in paddy, cholam and cotton prescribed for the region by the Ministry. Data regarding input and output of crops is being collected under the Cost Accounting Method and

the Survey Method as in 1954-55. Returns are being received from the field staff every week and they are being checked and scrutinized at headquarters.

(3) *Research Unit for the Economic Survey of Madras.*

The First Annual Report of this Unit, based on the survey of 2,401 households distributed in 9 Divisions of the City, was submitted to the Research Programmes Committee in July 1955. This Report indicated that the immigrants formed about 23 per cent of the total population in the Divisions covered and it was estimated that the unemployment in the area was about 14 per cent. The magnitude of unemployment was relatively larger among the educated. Immigration into the City was registering a mild uptrend.

The Survey has a target of 4,920 households for the year 1955-56. During the year there was a variation in the method of survey on the suggestion of Prof. Joan Robinson. Instead of covering zones in succession, the remaining 3 zones will be covered simultaneously by selecting the Divisions on a sampling basis.

The Employment Situation Survey in the Organized Sector in the Madras City, undertaken as desired by the Research Programmes Committee, was completed and a report was submitted. The Survey showed that the number employed in the organized and the public sectors was about 1,54,000, of which industry accounted for 40 per cent and the public sector 48 per cent.

The Unit was also asked to conduct a survey during the year of 'Fertility and Family Planning' in addition to the main survey.

The Professor of Economics is the Ex-officio Hon. Director of the Unit and Mr. K. S. Sonachalam is its Deputy Director.

(4) *Survey of Handloom Industry in Madras State.*

At the instance of the Ministry of Commerce and Industry, Government of India, a Research Unit was set up in April 1955 under the direction of the Professor of Economics to conduct a survey of the Handloom Industry in Madras State. It was proposed to conduct a sample survey covering 10 per cent of the looms in each of the 13 districts in the State. On a random sampling basis 104 centres were selected having looms with probability proportional to the total number of looms in each district. The districts were then grouped into 8 circles, each having an Investigator who is expected to cover 7,000 looms. The total number of looms to be intensively surveyed is 56,130.

From May 15, 1955, when the field work commenced, to the middle of November, enumeration has been completed in 65 centres covering 38,925 looms. In addition to the total count, the economic condition of the industry is also being studied and for that purpose 8,145 households covering 23,775 looms have already been intensively surveyed.

The Unit is functioning with the Professor of Economics as its Ex-officio Hon. Director and with Mr. U. Aiyasamy as its Assistant Director.

2. DEPARTMENT OF INDIAN HISTORY AND ARCHAEOLOGY

I. Staff:

Professor:

Sri. K. Kanakasabhapathy Pillay, M.A., L.T.,
D.Litt., D.Phil. (Oxon.)

Readers:

1. Dr. T. V. Mahalingam, M.A., D.Litt.
2. Dr. M. Arokiaswami, M.A., Ph.D.

Lecturer:

Vacant.

Dr. T. V. Mahalingam has been deputed by the University to undergo training in Archaeology and Epigraphy for one year. He is on *Study leave* for this purpose from June 1955.

Dr. M. Arokiaswami who was Lecturer in the Department has been promoted as *Reader* with effect from 1-4-1955.

II. Topics on which Research is in progress and works completed:

Professor: The Quinquennial programme of work (1954-59), submitted by the Professor and mentioned in the previous Annual Report was revised and the present programme for the quinquennium comprises (1) The Social History of the Tamils from 600 A.D. to 1500 A.D. and (2) The Pandyas (A History of the Pandyas down to the 18th century A.D.). In connection with the former subject, it was suggested that the Social History of the Tamils subsequent to 1500 A.D. up to the present day might be taken up by the Department to give a complete survey of the Social History of South India. In accordance with this suggestion, the Professor has planned the Survey in three volumes, (1) From the earliest times to 600 A.D. (2) From 600 A.D. to 1500 A.D., the subject mentioned in the present quinquennial programme and (3) From 1500 A.D. to the present day. This plan has necessitated an intensive investigation of the problems connected with the Social History of the Tamils from the earliest times to 600 A.D., on which the Professor had already done some work. During the year, the Professor was engaged in the study of Tamil classics in accordance with the plan mentioned above.

Readers :

Dr. Mahalingam's book on South India Polity has been published. Dr. Mahalingam also completed the scrutiny of the summary of Mackenzie manuscripts and submitted them to the University for publication.

Dr. M. Arokiaswami's book on the Kongu country is in the Press. He has completed writing two chapters of his book on South India during the Sangam Age.

III. Works published during the year :

South Indian Polity by Dr. T. V. Mahalingam has been published.

*Papers :**Professor :*

Early Imperialism in the Far East (Indian Year Book of International Affairs).

Reader :

The Origin of the Vellalas (Journal of Indian History).

The Probable Origin of Chola Architecture (Tamil Culture).

Some South Indian Images and Bronzes (Journal of the Madras University).

Stone Age in South India (Quarterly Journal of the Mythic Society).

Adigaman of Tagadur (Journal of Indian History).

IV. Number of Research Fellow, Students etc.

There were ten Research students on the whole, Stipendiary three, Probationers six and non-stipendiary one. The subjects on which they were working are :

1. Madura through the Ages.
2. Jainism in South India.
3. The Early History of Madras Region up to 1650.
4. Establishment of British power in Madras, from 1672-1805.
5. The contribution of South Indian temples to Education, 9th to 14th Century A.D.
6. Crime and Punishment in Madras, 1858-1905.
7. Education in Madras, 1857-1905.
8. Humanitarian movements in the Madras Presidency in the 19th Century.
9. The Press in Madras till 1905.
10. The Nayars.

V. Diploma Courses, etc.

The Professor delivered (a) lectures every week to the Diploma students in Politics and Public Administration (b) Special lectures on Hindu colonization in the Far East under the Inter-collegiate Scheme (c) Twelve lectures on Modern Constitutions and Constitutional History of India after 1857 to the Diploma course in Journalism.

The Reader, Dr. T. V. Mahalingam delivered weekly lectures on South Indian History to the Language Honours students under the Inter-collegiate Scheme from January to March and Dr. M. Arokiaswami continued the lectures on the same subject from July onwards to the end of the year.

VI. Conferences etc.

The Professor was deputed by the University to attend as a delegate to the 18th Session of the Indian History Congress at Calcutta. He contributed a paper on 'The Pudukottai Plates of Sri Vallabha and Adhivirarama'.

3. DEPARTMENT OF POLITICS AND PUBLIC ADMINISTRATION.**I. Staff:**

Reader :

Sri R. Bhaskaran, M.A.

Part-time Lecturer in Accountancy:

Sri R. Dayanidhi Reddi, B.A., G.D.A., L.T.

II. Topics on which Research was in progress during the year :

Research Students :

1. Political Parties in Madras.
2. Public Service Commissions in India.
3. Public Works Administration in Madras.
4. Financial Administration of the Corporation of Madras.

Research Fellow:

1. A History of the Indian Council of State.

Reader :

1. Legislation in Madras.
2. Judicial decisions and Constitutional Amendments in India.

III. Works completed during the year :*Research students:*

1. Unions and Associations of Public Employees in Madras (Thesis submitted).
2. Public Personnel Administration in Madras, 1643-1858 (Report submitted).
3. Prison Administration in Madras, 1850-1950 (Report submitted).

Reader :

1. Puranic material bearing on Indian Politics and Sociology.
2. State Union Relations in India.

IV. Papers prepared by the Reader during the year:

1. The implications of the Secular State.
2. The issues in States Reorganisation.
3. Sanctions behind the social order in Ancient India.

V. Research Fellows and Students :

One Research Fellow joined the department in October and there were three Research students, one non-stipendiary and two stipendiary students on probation.

One Research student submitted a thesis for the M.Litt. in August and two others submitted final reports.

VI. Diploma Course in Politics and Public Administration :

At the examination for the Diploma in July 1955, 13 candidates registered, 12 appeared and 10 passed. The strength of the second year class in July 1955, was 23 and 22 freshmen were admitted of whom 4 were qualified to complete the course in one year.

VII. Lectures :

The Reader delivered 4 lectures a week to the Diploma class and a course of 12 lectures in Political Science to the class for the Diploma in Journalism. He also delivered a course of 3 Inter-collegiate lectures on 'Freedom and Equality'.

VIII. Conferences :

The Reader attended the Indian Political Science Conference at Bhopal and participated in the discussion of States Reorganisation and Indian Foreign Policy.

4. DEPARTMENT OF GEOGRAPHY.

I. Staff :

Professor :

Sri George Kuriyan, B.A., B.Sc., Ph.D. (London).

Senior Lecturer :

Sri V. L. S. Prakasa Rao, M.A., D.Phil.

II. General:

Dr. George Kuriyan was in charge of the Department during the period under report.

He took a party of students on an excursion to Poona, Bombay, Baroda, etc, during the Christmas Holidays of 1954 and returned to Madras on the 11th January 1955. He attended the sessions of the Indian Science Congress held at Baroda and took part in the discussions.

He attended the meetings of the General Assembly of the International Social Sciences Council held in Paris during the last week of June as a Member of the Council. He also attended the Executive Committee meetings of the International Geographical Union and the International Geographical Seminar on Tropical Africa at Makerere College, Kampala, Uganda (East Africa) between the 10th and 17th September 1955. While in East Africa, he gave two lectures (1) at Kampala on 'Population Problems of India' and (2) at Jinja on 'The Progress and Development of Agriculture and Industries in India since Independence.'

He attended the United Nations Population Seminar as an Observer of the International Social Sciences Council at Bandung between the 19th November and 5th December 1955.

He took a batch of students to Waltair, Jamshedpur, Asansol, Benares, Delhi, Agra and Aligarh on a field excursion.

Research work :

- (1) A paper to the South Asia Issue of the Geographical Rundschau, Georg Westermann, Verlag, Braunachweig, Western Germany on 'Population and Food Supply in the Union of India' which was published in September 1955.
- (2) A paper on 'Planning and Development of Agriculture in India' has been sent for publication in the Special Number of the 'Current History' to be published in June 1956 from Philadelphia.
- (3) A paper on 'Agricultural Planning' has been sent to the International Geographical Seminar, Aligarh.

III. Teaching :

The B.A., B.Sc. Honours and Post-graduate classes in Geography were conducted on a co-operative basis, the Queen Mary's College, the Presidency College and the University Department of Geography being the three participating units. In July 1955, 12 students were admitted to the III Honours and 4 for the Post-graduate Courses, and they were assigned as follows :—

III Honours—Presidency College	...	4
„ —Queen Mary's College	...	8
Post-graduate —Presidency College	...	3
„ —Queen Mary's College	...	1

He is giving guidance for the Final Honours and Post-graduate students for the preparation of their dissertations and field-work reports.

IV. Supervision :

Mr. W. H. Wake, Assistant Professor of Geography, University of California, Los Angeles and Fulbright Scholar, worked on 'Transport in Madhya Pradesh' under the general guidance and supervision of the Professor till July 1955.

V. Senior Lecturer :

Dr. V. L. S. Prakasa Rao, the Senior Lecturer, was doing some of the work done by Dr. George Kuriyan when he was away from India.

He attended the Indian Science Congress held at Baroda during the first week of January 1955 and participated in the symposium on Natural Regions of India.

He continued to be the Secretary of the Indian Geographical Society and Editor of the Indian Geographical Journal.

VI. Work in Progress :*Professor :*

1. The Development of Irrigation and Hydro-Electric Power in India, since Independence.
2. The Growth and Development of Industries in India, since dependence.

Senior Lecturer :

1. Distribution of rural markets in the District of Vizagapatam.
2. Distribution of Population.
3. Land-Use Survey.

VII. Publications :*Professor :*

Population and Food Supply in the Union of India—South Asian Issue of the Geographical Rundschau, Georg Westermann, Verlag, Braunachweig, Western Germany.

VIII. Research Students :

Mr. W. H. Wake—Fulbright Research scholar, working on 'Transport of Madhya Pradesh.'

5. DEPARTMENT OF INDIAN PHILOSOPHY**I. Staff :***Professor:*

Sri T. M. P. Mahadevan, M.A., Ph.D.

Reader:

Sri V. A. Devasenapathi, M.A., Ph.D.

II. Topics on which Research is in progress :*Professor:*

- (i) Advaita as expounded by Suresvara.
- (ii) Suresvara's Sambandhavartika with English Translation and notes is being printed.
- (iii) The Lectures on Saiva Siddhanta delivered at Allahabad and Benares Hindu Universities in December 1953, are being published under the title, 'The Idea of God in Saiva Siddhanta'.

Reader:

A study of Tiruvacagam with available commentaries, Pope's Translation and Comparative study of Eckhart and Manikkavachagar by Schomerus.

III. Lecture Classes :

The Professor has been taking the Inter-collegiate classes in Indian Philosophy, every Tuesday, for the Honours and Post-graduate students of Madras Christian College, Pachaiyappa's College and Vivekananda College. The following is the strength of the class:

Madras Christian College ...	25 students.
Pachaiyappa's College ...	28 „
Vivekananda College ...	36 „
Total ...	<hr style="width: 50px; margin: 0 auto;"/> 89 students.

IV. Other Information:

The Professor presided over the XXX Session of the Indian Philosophical Congress held at Nagpur.

V. Papers published:

- (i) Articles in the Second Volume of Tamil Encyclopaedia on European Philosophy, Upanishads, Materialism, Eastern and Western, etc.
- (ii) Sections on Saivism in 'The History and Culture of the Indian People, Vol. IV.'
- (iii) Presidential Address entitled 'The Re-discovery of Man' to the XXX Session of the Indian Philosophical Congress.

VI. Number of Research Fellows and Students :

There were, on the whole, one Research Fellow and nine Research Students during the year. Out of them, one was stipendiary Research Fellow and two were stipendiary Research Students. Both the stipendiary Research students submitted their final reports. The rest of them worked on a non-stipendiary basis. One Research student has submitted her thesis 'The Ethics of Saiva Siddhanta' for the M.Litt. Degree.

In addition to the above, Mr. John Frederick Stall of Amsterdam (Netherlands) who joined the department last year as a Government of India Scholar, continued his research work on Neo-Platonism and Vedanta. He has registered for the Ph. D. Degree.

6. DEPARTMENT OF PSYCHOLOGY**I. Staff :**

Professor :

Sri G. D. Boaz, M.A., D.Phil. (Oxon.)

Senior Lecturer :

Sri. T. E. Shanmugam, M.A., M.Litt.

II. General :*Professor :*

Dr. G. D. Boaz was the Professor and Head of the Department during the period under report, except between the 20th Sept. and 7th Nov. 55, when he was away from Madras at China on a Teacher-Student Delegation of the University. During his absence Mr. T. E. Shanmugam, the Senior Lecturer, was in charge of the Department.

The Professor attended the Indian Science Congress held at Baroda in January 1955.

Teaching :

M.Ed. Degree Course : Has two afternoons a week (Lecturing work) for the M.Ed. students—Advanced Social Psychology.

B.A. (Honours): Has two hours a week (lecturing work) on Abnormal Psychology and Schools of Psychology.

Study Seminar :

Two to three hours a week for the Research students and staff.

Supervision:

M.Ed. Thesis—3.

M.Litt. Thesis—3.

Ph.D. Thesis—1.

Tamil Encyclopaedia:

Contributed six articles for the Tamil Encyclopaedia,

III. Topics in which Research is in progress :

1. Collecting material for a book on 'Abnormal Psychology.'
2. Standardising Intelligence Tests for age groups 8 to 13—work started in November 1954 under the Govt. of India Grant.
3. Collected material for studying a problem on Sex Preference by the general population.

IV. Research students:

There are five non-stipendiary Research students, two Central Govt. Scholarship holders, two stipendiary Research students (ceased in August 1955), and two probationary students in the Department.

V. Senior Lecturer:

He has three hours of practical classes for the M. Ed. students per week and two to three hours of Seminar classes per week.

He is working on the TAT and has completed practical tests. He is finalising his scheme to print a new TAT to be used in South India in collaboration with the Professor of Psychology.

Supervised the M.Ed. Thesis—six students.

Collecting material for standardising a scoring scheme for "Group Projection Test" in collaboration with four Psychologists in USA and UK.

VI. Topics on which Research was completed and published :

1. Current Problems and Theories of Adolescence—An Evaluation—Published in J. Madras University, 1955-56.

2. A Paper on 'Sex Delinquency and Emotional Instability' sent to the Indian Journal of Social Work, for publication (Bombay).
3. A Paper on "Symptoms and Syndromes of emotional instability in Adolescents". sent to the J. Madras University (A) for publication.
4. A paper on 'Relationship between Teacher and Parent Estimates and Verbal Projection Test', sent to the J. Madras University (B) for publication.

7. DEPARTMENT OF MATHEMATICS.

I. Staff :

Reader :

Sri V. S. Krishnan, M.A., M.Sc., B.T., D.Sc. (Paris)

Senior Lecturer :

Sri M. Venkataraman, M.A., Ph.D..

II. Topics on which Research work is in progress:

Theory of abstract structures, Modern Algebra, Topology and Uniformity of Spaces, Lattice theory.

III. Works published during the year :

The Reader published a 'Note on Semi-uniform Spaces' and a paper on 'Additivity and Symmetry for generalised Uniform Structures', in the Journal of the Madras University, Sect. B (Vol. XXV, Nos. 1 and 2). A paper on 'The theory of d-structures' is to be sent for publication, and an abstract of this has been sent to the Conference of the Indian Mathematical Society in December.

IV. Research Fellows and Research Students :

Till June 1955 a Senior Fellow of the Govt. of India was working on Convergence questions in L-spaces; another senior fellow has been engaged in developing a 'Convergence approach to Uniform Structure' as material for a Ph.D. thesis.

Two University scholars were engaged on topics from Ideal theory and Topology till August 1955.

Two non-stipendiary students were studying partly ordered 'linear spaces' and 'theory of rings'.

A probationary student working since August 1955 has got some interesting results generalising properties of compact spaces to Lindelof spaces.

V. Classes and Lectures :

During the term from January to April 1955 the Reader lectured on 'Representations of algebraic structures' and the Senior Lecturer on 'Linear Spaces and topological Groups' for the M.Sc. class. Of the 17 candidates who took the M.Sc. Examination in May, four passed in the first class, nine in the second class and four failed. For the new M.Sc. class from July the Reader delivered lectures on 'Topology and Uniformity', and the Senior Lecturer on 'Groups and Lattices'. The Rev. C. Racine, S.J., Professor from Loyola College, took classes on 'Rings and Fields' during the term from October to December 1955.

Under the scheme of Inter-collegiate Lectures, the Reader gave a course of eight lectures on 'Number Theory' to the IV Honours and I year Post-graduate students of the City Colleges in July and August. The Senior Lecturer took classes for the Statistics Diploma classes.

For the benefit of Research students the Reader gave courses of lectures on the following topics: Ideal theory, Algebraic Varieties, Uniformity and Convergence following the treatment of Tukey, Semi-uniform structures, Algebraic topology following the treatment by Lefschetz. The Senior Lecturer gave also courses of lectures on Operators in Hilbert Space, Differential Geometry and Analytic Topology.

In March, Professor Maass from Heidelberg University gave a lecture on 'Dirichlet Series and Modular Functions' and Professor L. Schwartz from the Paris University gave a lecture on the 'Theory of Distributions'. In October Professor M. Deuring from the Institute at Gottingen gave a lecture on 'Recent developments in Algebra and Number theory'.

8. DEPARTMENT OF STATISTICS

I. Staff:

Reader :

Sri D. V. Rajalakshman, M.A., M.Sc., Ph.D.
(Manch.), F.S.S., Dip. Econ.

Lecturer :

Sri G. S. Lingappaiah, M.Sc.

II. General:

The Reader was engaged mainly in providing suitable stochastic schemes for the analysis of time-series. Some models have been constructed and empirical work on them is in progress. He also conducted some preliminary study of growth distributions for applications to demographic problems. In addition he completed the analysis of the results of one sample study and the preliminary work of preparing the sample schemes for two other studies.

In view of the extensive application of Statistics in different branches of knowledge, the work of the Reader also consisted in rendering the necessary help and assistance in planning scientific experiments and in the analysis and interpretation of collected data for workers in different subjects.

III. Topics in which Research work is in progress:

1. Suitable schemes for the study of time-series analysis.
2. Tests to discriminate some forms of stochastic schemes.
3. Correlation problems from non-normal universes.
4. Some demographic studies.
5. Sample studies of some aspects of socio-economic conditions of (i) car owners and (ii) teachers in the City.

IV. Works completed and works published:

1. Some aspects of the studies based on the following topics have been completed during the year:
 - (i) Study of populations divided into a finite number of classes.

One Research student of the University completed the terms of award and left the Department on 29th September for higher studies abroad. He submitted a thesis for M.Sc. Degree and the nature of work done by him is given in topic 1 (ii) of item IV. One Research student joined the Department as probationary student on 24th August. He has been reading published papers on sequential sampling and stochastic processes.

Another Research scholar working for the Research degree continued to work in the Department on topic 3 given in item III.

All the Research scholars have been working under the guidance of the Reader.

V. Diploma courses and other lectures:

To provide an introduction in Statistics for Research workers in Science subjects, a course of 12 lectures were delivered by the Reader this year for all the Research workers of Science departments in the University. This course was designed to provide sufficient knowledge of the basic concepts of Statistical methodology useful for scientific workers in Planning experiments and in the analysis and interpretation of collected factual information.

Under the Inter-collegiate Scheme, the Reader gave a course of lectures on 'Testing of Statistical Hypotheses' for the final Honours students in Mathematics having Statistics as a subject for special study.

Since July, the Reader has been taking Statistics classes for the Diploma Course in Economics. These classes are being attended by some of the workers associated with the economic surveys of the Government of India in addition to the course students.

Of the five hours of lecturing for the Diploma Course in Statistics, the Reader continued taking one hour and the Lecturer four hours during the year. The Lecturer also assisted the Reader in obtaining the preliminary information for organising the sample surveys given in topic 5 of item III. In addition, practical classes of one hour a week have been arranged for the Diploma students with the help of the Research scholars of the Department.

For the Diploma Course in Statistics, 37 students were admitted in the I year class and 27 continued in the II year class. Of the 23 candidates that registered for the Diploma Examination held in July 1955, only 19

took the examination. Of these, 18 were declared qualified to receive the Diploma, three of them securing distinction.

VI. Other Information :

The Reader attended the Indian Science Congress Session as a delegate of the University. He was elected as a member of the Sectional Committee on Statistics.

9. DEPARTMENT OF PHYSICS

I. Staff :

Professor :

Sri G. N. Ramachandran, M.A., M.Sc., D.Sc.,
Ph. D., A.I.I.Sc., F.A.Sc.

Reader :

Sri A. Ramakrishnan, M.A., Ph.D., F.A.Sc.

Research Assistant :

Sri. K. S. Chandrasekharan, M.Sc.

II. Research Work :

Bio-physics:

- (a) A structure has been proposed for the collagen group of proteins, which is in good agreement with the known facts regarding these compounds. The work was initiated in 1954 and the preliminary structure then proposed has now been revised to explain the various properties such as infra-red absorption, X-ray diffraction, electron micrograph, thermal behaviour, chemical composition and stereochemistry. (G. N. Ramachandran, G. Kartha and Y. T. Thathachari).

- (b) Side by side with the above, experimental work has been carried out on collagen. X-ray photographs taken with wet and dry, as well as stretched and unstretched specimens of collagen fibres have substantiated the proposed structure. An interesting new phenomenon has been observed, namely, the oriented crystallisation of inorganic salts in collagen fibres, under suitable conditions (G. N. Ramachandran and G. K. Ambady).
- (c) Contrary to statements by previous workers, the X-ray pattern of collagen has been found to exhibit significant changes when the fibres are chromium tanned. A study also been taken up of the relationship between collagen and the related proteins elastoidin and elastin (G. N. Ramachandran and M. S. Santhanam.)
- (d) As a result of X-ray studies, it was found that the epicuticle of scorpion contains chitin, a constituent which was formerly considered to be absent in the epicuticles of all arthropods. A systematic X-ray study of the cuticles of arthropods was taken up. The epicuticle in the case of scorpion and centipede were found to be composed of a protein chitin complex containing a large percentage of chitin (M. S. Santhanam).

Crystallography & Crystal Physics:

- (e) Following earlier studies, the thermal expansion of orthorhombic KNO_3 and triclinic HBO_3 were determined by X-ray method. Boric acid is the first triclinic

crystal to be studied by this method and exhibits negative expansion in some directions (M. A. Lonappan).

- (f) The structure of the high-temperature modification of KClO_3 has been worked out from its powder photograph and thermal expansion data (G. N. Ramachandran and M. A. Lonappan).
- (g) The structures of the following crystals have been worked out : potassium tellurate dihydrate, a new form of titanium carbide, aspartic acid (S. Raman and V. Amirthalingam).
- (h) Using a Geiger-counter spectrometer and a polarising monochromator, the degree of perfection of a number of crystals such as calcite, rocksalt, quartz and lithium fluoride have been measured (K. S. Chandrasekharan).
- (i) The absolute configuration of the atoms in quartz has been determined using the anomalous dispersion of silicon atoms for the $\text{CuK } \alpha$ wave-length (G. N. Ramachandran and K. S. Chandrasekharan).
- (j) The Difference-Patterson technique, whose possibilities were worked out in this department, has been applied to some examples and shown to be useful (V. Sasi-sekharan).
- (k) The structures of tyrosine hydrochloride and hydrobromide are being worked out by the Difference-Patterson method (R. Srinivasan).

Cosmic Radiation:

- (l) The Reader in collaboration with his students continued his work on statistical problems in the theory of cosmic radiation. This year's work dealt mainly with multiple scattering and lateral spread of cascade showers. The stochastic models of multiple scattering in multiplicative processes were constructed and some theoretical results obtained.
- (m) A new formulation of the integration of random functions from a purely phenomenological point of view was made and a **Stochastic Theory** consistent theory built up for considering stochastic processes which can be represented by linear differential equations involving random functions of time. This theory has been applied to many problems of physical interest and particular results obtained.
- (n) The work in this field is a continuation of **Astro-physics** discussions on statistical problems in astrophysics suggested recently by papers of Chandrasekhar, Neymann and Scott.

III. Works published during the year :

1. Structure of Collagen by G. N. Ramachandran and G. Kartha, *Nature*, **176**, 593 (1955).
2. Infra-red Spectrum and Structure of Collagen by G. N. Ramachandran, *J. Chem. Phys.*, **23**, 600 (1955).
3. Oriented Crystallisation of Inorganic Salts in Collagen by G. N. Ramachandran and G. K. Ambady, *Experientia*, **11**, 343 (1955).

4. Studies on Collagen—Part I: Structure of Collagen Group of Proteins by G. N. Ramachandran & G. Kartha, Proc. Ind. Acad. Sci. (1955) (In Press).
5. Occurrence of Chitin in the Epicuticle of an Arachnid: *Palamneus Swammerdami* by G. Krishnan, G. N. Ramachandran and M. S. Santhanam.
6. Studies on the Cuticles of Arthropods by M. S. Santhanam, Proc. Ind. Acad. Sci., **42**, 142 (1955).
7. Influence of the Degree of Perfection of a Crystal on the Intensity of Bragg Reflection—Part I: Measurement with Calcite and Rock Salt by K. S. Chandrasekharan, Proc. Ind. Acad. Sci. A, **41**, 185 (1955).
8. Bragg Reflection of polarised X-rays from a Perfect Absorbing Crystal: K. S. Chandrasekharan, Acta Cryst., **8**, 361 (1955).
9. Thermal Expansion of Pottassium Nitrate: M. A. Lonappan, Proc. Ind. Acad. Sci., A., **41**, 239 (1955).
10. Thermal Expansion of Boric Acid: M. A. Lonappan, Proc. Ind. Acad. Sci., A., **42**, 10 (1955).
11. Structure of DL-Aspartic Acid: V. Amirthalingam and G. N. Ramachandran, Curr. Sci., **24**, 294, (1955)
12. Studies on Collagen—Part I: Structure of Collagen Group of Proteins, G. N. Ramachandran and G. Kartha, Proc. Ind. Acad. Sci., A., **42** (1955).
13. Straggling of the Range of Fast Particles as a Stochastic Process: Alladi Ramakrishnan and P. M. Mathews, Proc. Ind. Acad. Sci., **41** (1955):
- 14, 15. Phenomenological Interpretation of the Integrals of a Class of Random Functions I & II: Alladi Ramakrishnan, Proc. Neth. Acad. Sci., May 1955.

16. On Integrals of Random Functions: Alladi Ramakrishnan, Proc. Neth. Acad. Sci., September 1955.

17. Inverse Probability and Evolutionary Stochastic Processes: Alladi Ramakrishnan, Proc. Ind. Acad. Sci., April 1955.

18. Stochastic Processes Associated with Integrals of a Class of Random Functions, P. M. Mathews and S. K. Srinivasan, Proc. Nat. Inst. Sci. India (1955) (in the course of publication).

19. Correlation Problems in the Theory of Fluctuations in Brightness of Milky Way: Alladi Ramakrishnan and S. K. Srinivasan, Ap. J. (1955) (in the course of publication).

IV. Research workers :

Experimental:

University Fellow	1
University Students	4
C.S.I.R. Research Assistant	1
Madras Govt. Scholar	1

Theoretical:

I. C. I. Fellow	1
University Students	2

Four students submitted their theses for M.Sc. during the year and one for the Ph.D. Degree.

V. Lectures :

Eight students took the M.Sc. course, 4 in X-rays & Crystallography and 4 in Statistical Mechanics during the Academic year 1954-55. Only 4 students are taking the course in 1955-56, all in X-rays and Crystallography. The course was conducted by the

Professor and the Reader. Seminars were held at regular intervals, reviewing the progress of Research work in the Department and also on topics of interest to Research workers.

The Professor delivered a course of Inter-collegiate lectures on "Wave Mechanics", while the topic dealt with by the Reader was "Nuclear Physics".

VI. General:

The Professor acted, in an honorary capacity, as Editor of Current Science. The Reader was elected to the Fellowship of the Indian Academy of Sciences.

10. DEPARTMENT OF CHEMISTRY

(a) Organic Chemistry.

I. Staff:

Professor :

Sri K. N. Menon, M.Sc., Ph.D., A.R.I.C.,
A.I.I.Sc., F.A.Sc.

Reader :

Sri S. Swaminathan, B.Sc. (Hons.), Ph.D., A.I.I.Sc.

Research Assistant :

Sri V. Nagarajan, B.Sc. (Hons.)

II. Topics on which Research is in progress :

1. Synthesis of 1-acetyl-6-oxo-8a-methyl-3, 4, 6, 7, 8, 8a-hexa-hydronaphthalene and its use as an intermediate for building up the steroid skeleton.

2. The reaction of (3-methyl-5-methoxy)-phenylethyl magnesium chloride with 1-methyl-cyclohexen-(1)-on-(3)-(β-propionic acid ester)-(2) to yield cyclopentanophenanthrene derivatives.

3. Grignard reactions of 1, 6-dioxo-8a-methyl-1, 2, 3, 4, 6, 7, 8, 8a-octahydronaphthalene.

4. Synthesis of 1, 5-dioxo-7a-methyl-2, 3, 5, 6, 7, 7a-hexahydroindene.

5. Reactions of indoles and analogues of indoles with hexamethylenetetramine.

6. Synthesis of hydroxylated and alkoxyated gramines.

7. The stereochemistry of carboxymethoximes of some cyclonones.

8. The utilisation of safrole and eugenol methyl ether to obtain isoquinolines.

9. The synthesis of derivatives of cholesterol by substituting the homocyclic ring-A by a piperidine ring.

10. Synthetic experiments in aceperinaphthan system

11. Synthesis of aza - cyclopentano-phenanthrenes.

12. Synthesis of furano-quinolines.

13. Synthesis of 4-benzyl-quinolizines.

14. Synthesis of piperidyl-quinolizidines.

15. Oxidation of longif-dione to a dicarboxylic acid and its further step-wise degradation.

16. Chemical examination of *Cyclea barmani*, *Micro* and *cryptolepis buchani* (Roem).

III(a) Works published:

1. Heterocyclic Compounds. Part V: Synthetic Compounds Structurally related to the Alkaloids Evodiamine and Rutaccaprine (M. Indravathi), J. Madras Univ., B., XXV, page 125, 1955.

(2) The Benzophenanthridine Ring System: K. N. Menon, Current Science, June 1955, 24, 193.

III(b) Works completed :

- (1) A convenient method of preparation of indole-3-aldehyde by S. Swaminathan and S. Ranganathan.
- (2) A review of the Chemistry of ferrocene and related compounds: S. Swaminathan and S. Ranganathan.
- (3) A new route to 2-methyl-1, 3-cyclopentane dione: S. Swaminathan and K. Viswanathan.
- (4) Heterocyclic compounds, Part VI. Synthesis of substituted pyrido (1, 2a)-pyrimiden-2-ones: M. Krishnan.
- (5) Heterocyclic compounds, Part VII. 2-Quinolylylbenzimidazoles: T. K. Govindan.

IV. Research students :

	<i>Stipendiary</i>	<i>Non-stipendiary</i>
(a) University Fellowship	1	3
" Studentship	2	
(b) Govt. of Madras	1	
(c) Govt. of India :		
" Sr. Scholars	2	
" Jr. Scholars	3	

V. Lecture Classes :

Two candidates joined the M.Sc. (Post-Honours) course. The Professor and Reader delivered Inter-collegiate lectures.

VI. Other Information :

Miss M. Indravathi, M.Sc., left the Department after the completion of work and joined as Chemist, Malaria Investigation Team stationed at Waltair. The Professor attended the symposium on "Teaching of Chemistry" held at Bombay and the Reader attended the Indian Science Congress.

(b) Bio-Chemistry.**I. Staff:***Professor:*

Sri P. S. Sarma, B.Sc. (Hons.), M.Sc., Ph.D.
(Wisconsin), F. R. I. C. (London), F.A.Sc.

Senior Lecturer:

Sri E. R. B. Shanmukasundaran, M.A., B.Sc.,
Ph.D.

Research Assistant:

Sri R. Sivaramakrishnan, M.A., M.Sc.

II. General :

The Indian Council of Medical Research terminated the 'five-year' old scheme on the investigation of the "Enzymic Role of Inositol" while the Council of Scientific & Industrial Research renewed the grant for the fifth year for investigations on "Thyroidal Activity of Thyroglobulin and other Iodoproteins". The Madras State Research Committee sanctioned for the second year, their grant for the investigation of "The Factors Responsible for the Differences observed in Growth Promoting and Vitamin Values of Reconstituted Milk, Cow's Milk and Toned Milk", and the Atomic Energy Commission sanctioned their grant, also for the second year, for the Research Scheme entitled "Studies on the Biochemical Role of Zinc by the Use of Radioactive Zinc". In October 1955, the Council of Scientific & Industrial Research sanctioned a grant for a new scheme of research on "The Preservation of Neera".

The total strength of Research workers in the laboratory at present is *sixteen*, including five Govt. of India Research scholars, five Research Assistants in

various Research projects and one Research scholar of the Lady Tata Memorial Trust, Bombay.

III. Topics on which Research is in progress :

1. Inter-relationship among Vitamins and amino acids.
2. Metabolic studies with thyroxine and some vitamins of the B-group.
3. Studies on growth and metabolism of rice moth larvae (*Cordyza cephalonica st.*)
4. Thyroidal Activity of thyroglobulin & other Iodoproteins with special reference to their constitution.
5. Factors responsible for the poor growth promoting effect and low Vitamin content of reconstituted Milk.
6. Studies on the Biochemical Role of Zinc using radioactive zinc.
7. Investigation of the influence of monozite stand on various Biochemical systems and on the growth of micro-organisms.
8. Biosynthesis of ascorbic acid by use of radioactive glucose, fructose, and sucrose.
9. Influence of Vitamins on Nitrogen metabolism.
10. Studies on pyrophosphatase, phosphoproteins and dephosphorylation of phosphoproteins.

IV. Works published during the year and works completed:

1. Iodination of some Proteins and Defatted Seed Cakes—Journal of Scientific & Industrial Research, Vol. 14-C, p. 78, 1955: N. R. Moudgal, V. Srinivasan and P. S. Sarma.
2. Inter-relationships among Vitamins and Amino acids, Part III—Influence of Protein Hydrolysates on the Biological Synthesis of Nicotinic acid from Tryptophane in *Neurospora Crassa*—Journal of Scientific and Industrial Research, Vol. 14-C, p. 105, 1955: E. R. B. Shanmugasundaram and P. S. Sarma.
3. Paper Chromatography and Radioautography of Amylase—Current Science, Vol. 24, p. 235, 1955: S. Ramachandran and P. S. Sarma.
4. Inter-relationships among Vitamins and Amino Acids, Part IV—Role of Folic Acid and PABA in Tryptophane Metabolism in *Neurospora Crassa*—Journal of Scientific and Industrial Research, Vol. 14-C, p. 117, 1955: E. R. B. Shanmugasundaram and P. S. Sarma.
5. The Influence of Thiamine on Nitrogen Metabolism—*iochemica et Biophysica Acta.*, Vol. 18, p. 153, 1955: V. M. Sivaramakrishnan and P. S. Sarma.
6. The Role of Thiamine in the Biosynthesis of Ascorbic Acid in the Rat—Current Science, Vol. 24, 1955: K. Sivarama Sastry and P. S. Sarma.
7. Relationship between Amylase Synthesis and Uptake of p. 32 by Phospholipids in Pigeon Pancreas Slices—Journal of Scientific and Industrial Research, Vol. 14-C, p. 168, 1955: S. Ramachandran and P. S. Sarma.

8. Influence of 'B' Vitamins on the Inhibition by Casein Hydrolysate of Tryptophane Utilization in *Neurospora Crassa*—Current Science, Vol. 24, p. 268, 1955: E. R. B. Shanmugasundaram and P. S. Sarma.
9. The Inhibition by Sulfanilamide of the Metabolism of Histidine in Germinating Seeds—Current Science, Vol. 24, p. 330, 1955: V. M. Sivaramakrishnan and P. S. Sarma.
10. Effect of Thyroid Hormone on the Conjugation of Benzoyl Glucuronide in the Rat—Journal of Scientific and Industrial Research, Vol. 14-C, p. 191, 1955: N. R. Moudgal, V. Srinivasan, and P. S. Sarma.
11. The Metabolism of Glutamic Acid in Germinating Seeds—Biochemical Journal, London, Vol. 62, p. 132, 1956: V. M. Sivaramakrishnan and P. S. Sarma.
12. Inter-relationships among Vitamins and Amino Acids, Part V: Role of Biotin in Tryptophane Metabolism studied in Rats—Journal of Scientific and Industrial Research (In Press): E. R. B. Shanmugasundaram and P. S. Sarma.
13. Effect of Thyroxine and Thyroglobulin in Rice Moth Larvae—Science, U.S.A., Vol. 122, p. 644, 1955: V. Srinivasan, N. R. Moudgal and P. S. Sarma.
14. Effect of Added Diiodotyrosine on the Incubation Step in the Iodination of Proteins—Journal of Scientific and Industrial Research (In Press): L. K. Ramachandran and P. S. Sarma.
15. Biochemical Technique—Annual Review of Biochemical and Allied Research in India, Vol. 25, p. 1, 1955: V. M. Sivaramakrishnan and P. S. Sarma.
16. The Nature of the Effect of Ammonium Sulphate on the Biosynthesis of Ascorbic Acid in Plants—Biochemical Journal, London (In Press): K. Sivarama Sastry and P. S. Sarma.

17. Recent Developments in the Study of Metabolism of *Corcyra Cephalonica* St., Jubilee Souvenir Volume of the Society of Biological Chemists (India) (In Press): P. S. Sarma.

V. Research Fellows, Students & Government of India Scholars :

There are three Senior and two Junior Government of India scholars, one Lady Tata Memorial Trust Research scholar, two stipendiary and three non-stipendiary Research students.

Two students were awarded the M.Sc. Degree during the year. Further, one student submitted his thesis for the M.Sc. Degree and another his thesis for the Ph.D. Degree in January 1955 and they have completed the second part of their respective Degree Examinations. Three more students have submitted their theses for the Ph.D. Degree in August 1955.

VI. Lecture Classes — Strength, Number of Passes, etc. :

Lectures for the M.Sc. (Biochemistry) classes were given this year. Three students are attending the course.

Two students appeared for the M.Sc. Degree by examination in Biochemistry held in May 1955 and both passed in First Class.

VII. Other Information :

The Professor attended during the year the Annual meeting and two other meetings of the Biochemical Research Committee of the Council of Scientific and Industrial Research. He also attended the Forty-second Session of the Indian Science Congress held at Baroda as a delegate of the University. He was re-elected to the Executive Committee of the Society of Biological Chemists (India).

Prof. J. J. Yudkin, Professor of Nutrition in the University of London, visited the department and gave two lectures on some aspects of Nutrition.

(c) **Physical Chemistry.**

I. Staff :

Reader:

M. Santhappa, Ph.D. (Lond.), Ph.D. (Manchester)

II. Topics on which Research is in progress:

1. Chain transfer reactions in the polymerization of vinyl monomers, styrene, methyl methacrylate, methyl acrylate, vinyl acetate in the presence of solvents, hydrocarbons, acids, alcohols etc. And the catalysts, benzoyl peroxide, methyl ethyl ketone peroxide, ditertiary butyl peroxide, tertiary butyl hydroperoxide, alpha, alpha' azobisisobutyronitrile etc. at temperatures 70-100°C.

2. Photochemical polymerization of vinyl monomers in aqueous solution with ion pair complexes — $\text{Fe}^3 + \text{OH}^-$, $\text{Fe}^3 + \text{Cl}^-$, $\text{Fe}^3 + (\text{citrate})^3-$, $\text{Fe}^3 + (\text{Oxalate})^2-$, $\text{Ce}^4 + \text{OH}^-$ as photo sensitizers at 365 m μ .

3. Determination of rates of initiation of catalysed polymerization of vinyl monomers.

4. Homogeneous liquid phase polymerization of vinyl monomers with new type of peroxide catalyst like methyl ethyl ketone peroxide.

5. Homogeneous aqueous solution as well as emulsion polymerization of vinyl monomers with inorganic oxidising agents like ceric salts as initiators.

6. Nature of initiation and catalyst efficiencies in the peroxide type catalysed polymerization of vinyl monomers by a study of the relationship between the degree of polymerization and the ratio (catalyst/monomer) $\frac{1}{2}$ or (catalyst $\frac{1}{2}$ /monomer).

7. Spectrophotometric determination of the extinction coefficients of the ion-pair complexes $\text{Fe}^{3+} + (\text{Citrate})^{2-}$, $\text{Fe}^{3+} + (\text{Oxalate})^{2-}$ — $\text{Ce}^{4+} + \text{OH}^-$ — etc.

8. Preparation of cellulosic membranes for osmometric determination of the molecular weights of high polymers.

III (a) Works completed during the year :

1. Chain transfer reactions in the polymerization of styrene in the presence of the solvents, acids, alcohols etc. And the catalyst benzoyl peroxide at $70-100^{\circ}\text{C}$.

2. Photochemical polymerization of methyl methacrylates methyl acrylate, acrylonitrile in aqueous solution with ion-pair complex $\text{Fe}^{3+} + (\text{Citrate})^{2-}$ — as photosensitizer at $365 \text{ m}\mu$.

3. Determination of thermal and catalysed rates of initiation in (i) the bulk polymerization of methyl acrylate catalysed by benzoyl peroxide, methyl ethyl ketone peroxide, ditertiary butyl peroxide, tertiary butyl hydro-peroxide, hydrogen peroxide, alpha, alpha' azobisisobutyronitrile etc. and (ii) solution polymerization of styrene catalysed by the catalysts mentioned under (i).

4. Nature of initiation and catalyst efficiencies in the peroxide type catalysed polymerization of vinyl acetate and styrene by a study of the relationship between degree of polymerization and the ratios $(\text{catalyst}/\text{monomer})^{1/2}$ and $(\text{catalyst}^{1/2}/\text{monomer})$.

5. Spectrophotometric determination of the extinction co-efficients of the ion-pair $\text{Fe}^{3+} + (\text{Citrate})^{2-}$ —.

6. Preparation of the cellulosic membrane grown by the culture *Acetobacter xylinum*.

(b) Works published during the year :

1. Rates of initiation in the polymerization of methyl acrylate by Santhappa, M. and Mahadevan, V., *Curr. Sci.*, 24, 173, 1955.

2. Citrate Radical Ion Polymerization of methyl methacrylate by Subramanyam, R. V. and Santhappa, M., *Curr. Sci.*, 24, 229, 1955.

3. Nature of initiation in vinyl polymerizations, by Vaidyanathan, V. S., Chaithanyan, C. and Santhappa, M.—*Curr. Sci.*, 24, 256, 1955.

4. Rates of Initiation and chain transfer constant, in the polymerization of methyl acrylate by Mahadevan, V. and Santhappa, M.—*Die Makromolekulare Chemie*, Heftz, Band XVI, 119, 1955.

5. Chain transfer reactions and nature of initiation in the polymerization of styrene by Vaidyanathan, V. S., Santhappa, M.—*Die Makromolekulare Chemie*, Hefts, Band XVI, 140, 1955.

IV. Research Students & Fellows:

Research Fellows—Nil.

Students—6 (two University stipendiary & four non-stipendiary).

Govt. of India scholars—Nil.

No. of qualified for Research Degrees—Nil.

V. Lectures:

Lectures on certain special topics in Physical Chemistry were delivered to the students proceeding to M.Sc. by examination in Physical Chemistry. One student appeared for M.Sc. Degree Examination in May 1955 and he passed. There are three students who are attending lectures on special topics and who will appear for M.Sc. Examination in May 1956. The total number of lectures delivered for the M.Sc. students (by examination) during the year were about twenty-five. About 20 lectures were also delivered to Research students proceeding for M.Sc. and Ph.D. Three lectures were

delivered on 'Surface and Colloid Chemistry' to B.Sc. (Hons.) and M.A. students of the Presidency College and the Loyola College as a part of the Inter-collegiate lectures.

VI. Other General Information :

The Reader attended the Forty-second Session of the Indian Science Congress held at Baroda, as a delegate from the University.

II. DEPARTMENT OF BOTANY

I. Staff :

Director & Professor :

Sri. T. S. Sadasivan, M.Sc., Ph.D. (Lond.),
D.Sc. (Lond.), F.N.I., F.A.Sc., F.B.S.

Reader :

Sri. C. V. Subramanian, M.A., Ph.D., F.A.Sc.

Senior Lecturer :

Sri. K. Ramakrishnan, B.Sc. (Hons.), Ph.D.

Research Assistant :

Kumari C. B. Sulochana, M.Sc.

II. Topics on which Research is in progress :

1. Fungus floras of South Indian virgin and cultivated soils.
2. Soil conditions and root diseases with special reference to Fusarioses.
3. Rhizosphere microfloras of Indian crop plants in relation to soil-borne diseases.
4. Effect of Trace Elements on Fungi.
5. Studies on Fungi Imperfecti from Madras.
6. Growth factor requirements of Fungi.

7. Morphology and Taxonomy of South Indian Fungi.
8. Studies on Ascomycetes of South India.
9. Studies on South Indian Mxomyceytes.
10. Studies on seed-borne diseases of cereals and millets.
11. Studies on Helminthosporioses in India.
12. Investigations on the 'tikka' disease of groundnut.
13. Microchromatography ; Spectroscopy and bioassay techniques.

III. Works published during the year and works completed :

(a) Works published during the year :

- (1) "Symposium on Soil Micro-organisms and Plant Well-being" by T. S. Sadasivan *et al.*
- (2) "Influence of the culture filtrate of *Fusarium vasinfectum* Atk. on *Piricularia oryzae* Br. et. Cav." by A. Appa Rao, N. S. Subba Rao, and S. Suryanarayanan.
- (3) "Growth requirements of *Piricularia oryzae* Br. et. Cav." by A. Appa Rao, L. Saraswathi Devi and S. Suryanarayanan.
- (4) "Bioassay of *Fusarium* toxin" by R. Kalyanasundaram.
- (5) "Studies on South Indian Fusaria IV. The 'wild type' in *Fusarium udum* Butler" by C. V. Subramanian.
- (6) "Some Slime-moulds from Southern India-III" by V. Agnihotrudu.

- (7) "Studies in the growth requirements of Indian Fungi" by T. S. Sadasivan and C. V. Subramanian.
- (8) "Vivotoxins and Fusariose wilts in plants" by C. V. Subramanian.
- (9) "Zinc in the metabolism of *Fusarium vasinfectum* Atk." by R. Kalyanasundaram and L. Saraswathi Devi.
- (10) "A new species of *Sapromyces* from South India" by M. O. P. Iyengar, K. Ramakrishnan and C. V. Subramanian.
- (11) "On *Discella cedrelae* Ramakr. T. S. and K." by C. V. Subramanian and K. Ramakrishnan.
- (12) "Synthesis of ascorbic acid by *Fusarium vasinfectum* Atk." by R. Kalyanasundaram and L. Saraswathi Devi.
- (13) "Antibiotic production by *Fusarium vasinfectum* Atk. in soil" by R. Kalyanasundaram.
- (14) "Fungi isolated from Rhizosphere-I," by V. Agnihotrudu, K. Bhuvaneshwari and S. Suryanarayanan.
- (15) "Is Fusaric acid a vivotoxin?" by K. Lakshminarayanan and D. Subramanian.
- (16) "Soil conditions and root diseases-XIV," by R. Kalyanasundaram.
- (17) "Soil Fusaria and their pathogenicity" by C. S. Venkataram.
- (18) "Assay of Root Exudates", by K. Bhuvaneshwari and C. B. Sulochana.
- (b) *Works completed:*
- (1) "Role of cystine chelation in the mechanism of *Fusarium* wilt of cotton" by K. Lakshminarayanan.

- (2) "Ascomycetes from South India-III" by K. Ramakrishnan.
- (3) "Fungi Imperfecti from Madras-VII" by C. V. Subramanian.
- (4) "Toxin and growth factor productions in Fusaria-I. Stimulation of rooting in cut shoots of tomato..... filtrates" by C. S. Venkataram.
- (5) "Soil conditions and root diseases-XV" by P. D. Varadarajan.
- (6) "On *Ciliochorella* Sydow *Plagionema* Subr. and Rama Kr. *Shanoria* gen. nov." by C. V. Subramanian and K. Ramakrishnan.
- (7) "Some species of *Periconia* from India" by C. V. Subramanian.
- (8) "Production and Systemic translocation of fusaric acid in *Fusarium* infected cotton plants" by R. Kalyanasundaram and C. S. Venkataram.
- (9) "Hyphomycetes-I," by C. V. Subramanian.
- (10) "*Sapucchaka*, a new genus of the *Hemisphaeriales*" by K. Ramakrishnan.
- (11) "Some Slime-moulds from Southern India IV" by V. Agnihotrudu.
- (12) "Fungi isolated from Rhizosphere. II. *Starkyomyces*—A new genus of the *Tuberculariaceae*" by V. Agnihotrudu.
- (13) "Soil conditions and root diseases XVI. Colonization and survival of *Macrophomina phaseoli* (Maubl.) Ashby in trace element amended soils" by K. Radha.

IV. Research fellows, students etc.

- (1) University Research Fellow : ... 1
 (2) University Research Students : 8
 (3) Government of India Scholars (Senior): 5;
 (Junior) 3.
 (4) I. C. I. Research Fellows: 2

Number qualified for Research degrees during the year:—

Ph. D. Degree : 2

V. Lecture classes :

- (i) Lecture for the M. Sc. (Plant Pathology) students.

Strength: 2 in the present year.

Number of passes 3, out of 3 students in 1954-55.

- (ii) **Inter-collegiate Lectures by the Staff:**

Director: 10 lectures on Plant virus and virus diseases.

Reader: 10 lectures on 'Principles of Plant Pathology.'

Sr. Lecturer: 10 on 'The Ascomycetes.'

VI. Other general information such as attendance at Conferences, etc. :

Professor T. S. Sadasivan and seven of his colleagues including Dr. C. V. Subramanian (Reader in Botany) and Dr. K. Ramakrishnan (Senior Lecturer) took part in a Symposium on "Soil micro-organisms and Plant Well-being", organized by the Indian Academy of Sciences and held during its Annual meeting at Belgaum in December 1954. The Symposium was opened by Professor Sadasivan and the entire symposium has been published in the proceedings of the Indian Academy of Sciences B, Vol. XLI, pp. 97-154, 1955.

Dr. C. V. Subramanian, Reader in Botany took the two M. Sc. (Plant Pathology) students to Coimbatore and the Nilgiris in September 1955, for field-work and collection of fungal samples.

12. DEPARTMENT OF ZOOLOGY

I. Staff:

1. Director (Professor) Sri C. P. Gnanamuttu, M.A., D.Sc., F.Z.S., F.A.Sc.
2. Reader Sri G. Krishnan, M.A., M.Sc., Ph.D. (Manchester)
3. Lecturer Sri S. Krishnaswamy, M.Sc., Ph.D.
4. Research Asst. : Sri B. S. Dorairaj, M.A.

II. Topics on which Research is in progress:

1. Director : Parasitic copepods.
2. Reader : Cuticle of Marine Arthropod and physiological studies of blood in relation to cuticle development.
3. Lecturer: Free-living copepods and their physiology.
4. Res. Asst.: Lateral line organs of fishes—sound production and reception in fishes.

III. Works published during the year :

1. *Chonisosphaera indice*, a copepod parasitic on the crab *Neptunus* sp. Parasitology, Cambridge, 44, pp. 371-378 (1954)—C.P. Gnanamuttu.
2. Biology and Parapsychology, Madras Univ., A 27, pp. 1-7, 1955.—C.P. Gnanamuttu.
3. Speciation and the new systematics, National Inst. Bulletin No. VII.—C.P. Gnanamuttu.

4. The Epicuticle of an arachnid *Palamneus swammerdami*. Quart. Jour. Micro. Sci., 95, pp. 371-381—G. Krishnan.
5. Nature of the cuticle of Pycrogonida. Nature, 175, p. 904—G. Krishnan.
6. Occurrence of chitin in the epicuticle of *Palamneus swammerdami*. Nature. 175, pp. 557-558—G. Krishnan.
7. Life History of the Psammophilous copepod *Leptastacus eurvhalinus*. J. Mad. Univ. B. 26.—S. Krishnaswamy.
8. Dedifferentiation in the colony of *Polyclinum indicus*, J. Mad. Univ., B. 24: pp. 363-371—V. O. Sebastian.
9. *Perophosa lister indica* var. nova., a new ascidian from the Madras Coast of India, Zool, Anz., 154: pp. 266-268—V.O. Sebastian.
10. Morphogenesis during regeneration in an Euteropueust, J. Animal Morphol and Physiol 1, pp. 1-8.—K. Pampapathi Rao.
11. Fat contents of the Red mullet *Upeneus indicus* Shaw, J. Mad. Univ., 25, pp. 115-122—T. S. Ramaswamy.
12. Effect of copper sulphate and Mercuric chloride on barnacle larvae, J. Timber dryer's and Preserver's Asst. India, 1—A. Daniel.
13. Gregarious attraction as a factor influencing the settlement of barnacle cyprids, J. Madras Univ., B. 25, pp. 97-107—A. Daniel.
14. A Primary film as a factor in settlement of marine foulers, J. Madras Univ., B. 25, p. 189—A. Daniel.

15. The Respiratory exchange through the skin and lungs in the frog., J. Madras Univ., **24**, pp. 355-362.—A. George Cherian.
16. Unusual lowering of salinity in the Madras coastal area and its effect on the Plankton, Curr. Sci., **24**, pp. 27-89—M. S. Muthu.
17. Ecdysial mechanism in a decapod, *Penaues indicus*, Curr. Sci., **23**, pp. 403-405—A. Krishnakumaran.
18. The Digestive Enzymes of *Bankia indica*, Curr. Sci., **24**, pp. 126-127—N. Balakrishnan Nair.
19. On the new species of shipwork of the sub-genus *Neobankia* from Madras, J. Madras Univ., B. **25**, pp. 109-113—N. Balakrishnan Nair.
20. Life History and feeding habits of the spotted seer *Scombero merus guttatus* : Indian J. Fisheries, Vol. II, No. **2**, '55—P. Vijayaraghavan.
21. Crustaceans in relation to underwater timber structures: Curr. Sci., Vol. **24**, 1955—T. K. Srinivasan.

IV. Works completed during the year :

(1) *Theses for the M.Sc. Degree.*

Mr. A. Krishnakumar—Cuticle of Crustacea—result awaited.

Mrs. Vijayamma Thomas—Anatomy and development of *Dasychone*—awarded degree.

Mr. Antony Raja—Development and growth of Marine Sedentary organisms—result awaited.

Mr. M. D. K. Kuthalingam—Food and feeding habits of fishes—result awaited.

(2) *Theses for the Ph.D.* :

A. Daniel—Studies on Cirrpedes—Degree awarded.
N. Balakrishnan Nair—Studies on Teredinidae—result awaited.

T. S. Ramaswamy—Studies on fat contents of fishes and their seasonal fluctuations—result awaited.

(3) *Papers in Press* :

1. Four new copepods of the genus *Penella* from S. Indian flying fishes: Parasitology, Cambridge.—C. P. Gnanamuttu.
2. Nature and composition of cuticle in arthropods: *Physiol. Zool.*—G. Krishnan.
3. Structural peculiarities of the psammophilous copepods: *Proc. Indian Sci. Congress.*—S. Krishnaswamy.
4. Notes on the bionomics of psammophilous copepods of Madras: *Proc. Indian Science Congress*—S. Krishnaswamy.
5. Three new semiparasitic copepods from Madras. *Rec. Indian. Mus.*—S. Krishnaswamy.
6. A new species of Laophonte (copepods, Harpacticoida) from Madras *Rec. Indian Mus.*—S. Krishnaswamy.
7. Food of Horse mackerel: *Curr. Sci.*—M. D. K. Kuthalingam.

8. The food and feeding habits of four adult and juvenile fishes of Madras—M. D. K. Kuthalingam.
9. On the occurrence of two wood-boring pholads from Madras Curr. Sci.—A. Daniel and V. V. Srinivasan.
10. Colour as a factor influencing the barnacles Curr. Sci.—A. Daniel.
11. The Development and Metamorphosis of three species of Sessile barnacles: Proc. Indian Sci. Congress—A. Daniel.
12. The effect of colour as a factor influencing the settlement of the fouling complex: Proc. Indian Sci. Congress—A. Daniel.
13. Studies on the sinus gland of crustacea: Proc. Indian Sci. Congress—Mrs. Ruby Daniel.

V. Number of Research fellows:

Govt. of India Cultural scholar	—1 from Malaya till August.
„ Senior scholar	—2 one till July.
„ Junior scholar	—2 one till November.
„ Wood preservation	—2
University stipendiaries	—3
Non-stipendiary students	—8
M.Sc. (by exam.) students	—4

VI. Inter-collegiate lectures:

Eleven lectures on Invertebrate Embryology were delivered to B.Sc. (Hons.) and Post-graduate students of the Presidency and Christian Colleges. Practical demonstrations also were given.

The M.Sc. (by exam.) students were given lectures, essay work and practical work every day.

VII. The Reader attended the Indian Science Congress at Baroda. The Director attended the Wood Preservation Conference at Dehra Dun. Dr. Anton Fr. Brunn, D.Sc., LL.D., leader of the "Galathea" expedition and Director of the Zoological Museum of Copenhagen University visited the department, discussed the different problems studied by staff and students and delivered two lectures under the auspices of the UNESCO.

13. DEPARTMENT OF GEOLOGY AND GEOPHYSICS

I. Staff :

Reader :

Sri P.R. Jagapathy Naidu, M.Sc., D.Phil. (Basel),
F.G.S., F.G.M.S., F.P.S., Foreign Member
Amer. Cryst. Soc., Swiss. Min. Soc. and Amer.
Min. Soc.

Research Assistant :

Sri S. Ramanathan, M.A.

II. Topics in which Research is in progress and works completed :

Research in Progress :

1. Granites and Granites—Series II.

2. The relationship of ultrabasic rocks to the
Charnokites as studied in Salem and Dod-
kanya.

3. The Charnokites from the type area of Sir Thomas Holland.
4. The Chamundi Granite.
5. The Granite mass of Jalarpet.

Works completed :

1. The anorthite-gneiss and associated rocks of Sittampundi—thesis submitted for the award of M.Sc. Degree by Sri C. E. Nehru.
2. Sankaridrug granite and associated rocks—thesis submitted for the award of M.Sc. Degree by Sri M.N. Balasubrahmanyam.
3. Tectonics of the Chamundi Granites.
4. Field relationship of the Charnockites of the type area of Sir Thomas Holland.
5. Field relationship of the Charnockites and ultra-basic rocks of Salem.

III. Works published during the year :

1. Measurement of Extinction Angles in Hornblendes which show strong absorption: *Current Science*, **24**, 154-55, 1955 by Dr. P.R.J. Naidu.
2. Minerals of Charnockites from India, Schweiz. *Min. Pet. Mitt.*, **34**, 204-280, 1955 by Dr. P.R.J. Naidu.
3. Vogesites and Noritic Olivine Dolerites from Salem and Dodkanya: *J. Madras Univ*, **B.**, **25**, 29-54, 1955 by S. Ramanathan.
4. Migmatization in Kattrigupe Quarry, Bangalore Dist., Mysore State: *J. Madras Univ.*, **B.**, **25**, 129-146 by S. K. Babu.

5. Heavy Mineral Suites in the Granite Rocks of Jalarpet: J. Madras Univ., B., **25**, 147-152, 1955 by V.M. Raghavan.
6. The association and genesis of the Wollastonite and Scapolite bearing rocks of Sankaridrug, Salem Dist.: J. Madras Univ., B., **25**, 153-65, 1955 by M.N. Balasubrahmanyam.
7. Two amphiboles from the Anorthite and Biotite—gneisses of Sittampundi, Salem Dist.: J. Madras Univ., B., **25**, 19-28, 1955 by Sri C. E. Nehru.
8. Geology and Petrochemistry of the Anorthite Gneiss and Associated rocks of Sittampundi, Salem Dist.: J. Madras Univ., B., **25**, 173-188, 1955 by C. E. Nehru.
9. A Pyroxene from Sittampundi, Salem Dist., J. Madras Univ., B., **25**, 167-172, 1955 by C. E. Nehru.

In Press :

1. Heavy accessories of the granites and gneisses of Chamundi Hills, Mysore by S.K. Babu.
2. Some minerals from the Calc-band of Sankaridrug, Salem Dt.—by M. N. Balasubrahmanyam.
3. Tectonics of the Granites, Gneisses and Migmatites of Sankaridrug by M. N. Balasubrahmanyam.
4. Tectonics of the Granites and Gneisses of Tiruchengode, Salem Dist. by C. E. Nehru.
5. Further work on the dyke rocks of Pallavaram by N. Leelananda Rao.

IV. Number of Research students etc.:

University Research Fellow	...	1
University Research Student	...	1
Govt. of Madras Research Student	...	1
Non-stipendiary Research Students	...	3
M.Sc. students by examination	...	2

V. Diploma or other lecture classes etc.:

Fifteen Lectures were delivered in Industrial Geology to 32 students in Chemical Engineering. Symposia were held on 8 topics and 10 lectures delivered to the M.Sc. students.

The Reader was again co-opted to the Council of Mining and Metallurgical Society of India.

14. DEPARTMENT OF ANTHROPOLOGY**I. Staff:**

Senior Lecturer:

Dr. U. R. (Baron von) Ehrenfels, Ph.D. (Vienna)

Junior Lecturer:

Sri M. S. Gopalakrishnan, M.A., M.Litt.

II. (a) Research work:

Senior Lecturer:

The Senior Lecturer pursued researches in disintegration and re-integration, particularly among Highlanders of India affected by the acculturation process and contributed a paper on the subject to the Third Tribal Welfare Conference, held at Jagdalpur in March 1955, continued his comparative study of matrilineal societies in India and in this connection undertook research in the nature and origins of North-South-polarization at a phenomenon of culture history, Social and religious ritualistic organization.

The Senior Lecturer studied new developments of Social and Cultural Anthropology at the Institute of the Vienna University and contributed to its Jubilee publication. He delivered a course of two lectures "Meaning and Contents of Anthropology" and "Anthropology and Political Administration in a Welfare State" at the Maharaja's College, Mysore, in October 1955.

The Senior Lecturer attended and read a paper on "Matrilineal Civilization and the Changing Position of Women in India" including the problems of North-South Polarization, at the conference held by the Social Sciences Association, Madras, in November 1955, as its Vice-President.

Junior Lecturer:

Read a paper on "Preliminary Studies relating to the Nambudiri Brahmins of Kerala and Culture-Change" at the Conference of Anthropologists and Sociologists, held in Madras in November 1955, and also took part in the discussions at the meeting.

(b) Publications:

Senior Lecturer:

- (a) *Zwei Pole der Gessellschaft* in "Kontinente," Vol. VII, Vienna, January 1955.
- (b) *Three Matrilineal Groups in Assam: A Study in Similarities and Differences*, in "American Anthropologists", Vol. 57, No. 2, Chicago, April 1955.
- (c) *Hygiene and Acculturation*, in "The Report of the Third Conference for Tribes etc.", held at Jagdalpur, March 1955, and journal of the Madras University, Vol. XXVII, No. 1, July 1955.

- (d) *Kleidung, Mode and Kultur-Ziele*, in "Kontinente" Vol. VIII, Vienna, July/August 1955 (in the language of the country).
- (e) *An article on "Initiation Rites and an Annual Mock Fight Among Virpath Malayalar of North Malabar*, Vienna University Institute for Anthropology, Jubilee Volume (in the press).
- (f) *An article on Non-Alignment and Indian Cultural History*, in "Indian Year book of International Affairs", University of Madras (in the press).
- (g) *An article on "The History of Anthropological Thought"*, in "Journal of University of Madras" (in the press).

Junior Lecturer:

A paper "Realizing Facts—Self Realization Through Anthropology (to be published in the Madras University Journal)

Preparing three papers on (i) Folklore, (ii) Tattooing and (iii) Witchcraft, for the "Tamil Encyclopaedia (to be published)."

III. Certificate and Diploma courses in Anthropology:

Six Diploma and one Certificate students appeared for the Examination in April and all came out successful.

Two students joined the second year of the Diploma course and three for the Certificate course. Four more students joined the First Year Diploma course.

The Senior Lecturer and the Junior Lecturer have delivered lectures to both the courses. The Senior Lecturer was assisted by Dr. A. Ananthanarayana Ayyar and Dr. A. Aiyappan with their lectures on Comparative Anatomy of Man and Anthropoid Apes and Pre-historic Archaeology during the year.

IV. Common Work:

The Senior Lecturer with the assistance of the Junior Lecturer, Sri M. S. Gopalakrishnan, started the work on a book on the principles of Social and Cultural Anthropology.

15. DEPARTMENT OF CONSTITUTIONAL AND INTERNATIONAL LAW

I. Staff :

Professor:

Charles Henry Alexandrowicz, L.L.M., L.L.D.,
Barrister-at-Law.

II. Topics on which Research is in progress and works completed:

1. Interpretation of the Indian Constitution.
2. Comparative Constitutional Law in South East Asia.
3. History of the Law of Nations in Asia in the 16th, 17th and 18th centuries.
4. Law of Recognition of States.

III. Works published during the year :

The Professor completed a comprehensive study of the Indian Constitution covering 250 pages. He published also the following Papers :

- (a) Delegation of Legislative Power (American Journal of Comparative Law).
- (b) Grotius and India—a study based on the manuscript of *Mare Liberum* (Indian Year Book of International Affairs, Vol. III).
- (c) Admissibility of the Constituent Assembly debates for the interpretation of the Constitution (The Lawyer).

V. Number of Research fellows, students, etc. :

One Research Fellow and six Research students. The subjects of their Research are :

1. India and the Commonwealth.
2. The Constitution of the Phillipines.
3. Law of Extradition in India.
4. Legal position of Goa.
5. The Status of women in International Law.
6. Anglo-Burmese relations in the 17th century.
7. Principles of Interstate Law in the Mughal empire.
8. Private International Law in India.

V. Diploma or other lecture classes:

The Professor held six classes and seminars weekly for M.L. students and lectured every week for the Diploma students on Constitutional Law.

VI. Other general information :

The Professor was on study leave in London and lectured at London University in May and June. He was also Ph.D. Examiner for London University. The Professor is Secretary General of the Indian Committee of Comparative Law and attended the meetings of the Committee. The Professor is also Editor of the Indian Year Book of International Affairs. He completed the publication of Vol. III and is now preparing the publication of Vol. IV.

16. DEPARTMENT OF TECHNOLOGY

*(Alagappa Chettiar College of Technology,
Guindy, Madras-25).*

(a) Chemical Technology.**I. Staff :**

Ag. Professor of Chemical Engineering:

Sri G. S. Laddha, B.Sc., B.Sc.(Tech.), M.S.Ch.E.
(Purdue), Ph.D. (Purdue), A.M.I.I. Chem.E.

Reader in Engineering:

Sri V. S. Jayaraman, B.E., A.M.I.E., A.M.I.I.
Chem.E.

Reader in Chemical Technology:

Sri A. P. Madhavan Nair, M.A.

Senior Lecturer in Chemical Engineering:

Sri B. Chennakesavan, B.Sc. (Hons.) Tech., A M.
I.I.Chem.E.

Senior Lecturer in Industrial Chemistry:

Sri P. B. Janardhan, M.A., Ph.D., A.R.I.C.
(London).

Senior Lecturer in Engineering:

Sri P. Murugamanickam, B.E.

Senior Lecturer in Ore Dressing.

Sri M. G. Subba Rau, B.Sc. (Tech.), M.Sc., A.M.I.
Chem. E. (Lond.)

Demonstrators :

1. Sri S. Subrahmanyam.
2. Sri B. Jagannadhaswamy.
3. Sri N. Subrahmanyam.
4. Sri B. K. Sadananda Rau.

Part-Time Staff :

German: Mrs. Ellen Sharma, M.A., M.Ed.
(Muenster)

Economics: Dr. R. Balakrishna, Professor of Economics,
University of Madras.

Geology: Dr. Jagapathi Nayudu, Reader in Geology,
University of Madras.

II. Topics on which Research is in progress and works completed :*Heat Transfer:*

Study of heat transfer through packed beds has yielded a good deal of design data. The work is nearing completion.

Lignite Utilization:

With the great interest roused by the discovery of large lignite deposits in South India, investigations are

under progress to study in particular the chemical products derived from lignite. A few phases of the work have been completed and published.

Vapour liquid equilibrium studies:

Work on vapour-liquid equilibrium in presence of salts and solvents for binary systems has been started.

Design of Extraction Columns:

Studies in the correlation of flooding velocities, pressure drop, etc., in liquid-liquid extraction columns are nearing completion.

Ternary Liquid Systems:

Equilibrium data on ternary system involving oleic acid, groundnut oil and solvents have been obtained. A few papers on the subject have been published.

Production of Methyl ricinoleate:

A phase of the work has been completed and is under publication.

Electro-Analytical Methods:

A study of new methods of electro-analytical chemistry has been started. A few phases of the work are under publication.

Beneficiation of Kyanite:

The work is under progress. Some data have been obtained on the use of tabling of the ore.

III. Work published during the year and Abstracts of Papers:

- I. Gopala Venkataraman and Laddha, G. S.: Peanut Oil—Oleic Acid—Acetic Acid and Peanut Oil—Oleic Acid—Furfural Ternary Systems. I.E.C., **47**, 1272-73 (1955).

In connection with a study of the extraction of fatty acids from fatty acid—vegetable oil solutions, complete equilibrium and phase distribution data have been obtained for the Peanut Oil—Oleic Acid—Acetic Acid and Peanut oil—oleic acid furfural systems at 40°C.

2. Gopala Venkataraman and Laddha, G. S.: Studies in Deacidification of Vegetable Oils: J. Madras Univ. B., Vol. XXV B, No. 3, Dec. 1955.

Investigations on the applicability of solvent extraction process for deacidification of vegetable oils have indicated that ethyl alcohol can be used as the selective solvent for extraction of oleic acid from groundnut oil—oleic acid solutions. Complete data have been given for this extraction using 90%, 95% and unhydrous alcohol at 30°C.

3. Kasturirangan, K. and Laddha, G.S.: A study in Fractionation of Caster Oil Methyl Esters by Liquid-Liquid Extraction: J. Madras Univ. B., Vol. XXV B, No. 3, Dec. 1955.

The methyl esters obtained by the methylation of castor oil can be fractionated to get a fraction richer in methyl ricinoleate. The study indicates that the solvents furfural and hexane can be used for the fractionation of the mixed methyl esters.

4. Subba Rau, M.G. and Govinda Rau, M.A.: Simple Apparatus for Refrigeration Experiments: J. Chem. Eng., 32, 364 (1955). Description, operation and line drawing of a house hold Freon Refriger-

ation Unit, modified for use as an experimental unit in Engineering laboratories is given. The paper gives a set of specimen data for refrigeration and heat pump operation.

5. Subrahmanyam, S. and Madhavan Nair, A. P.: Carbonisation Assay of South Arcot Lignite at different temperatures : J. Madras Univ. B., Vol. XXIV., No. 3. 385-392 (1954).

The low temperature carbonisation assay of the lignite has been performed at different temperatures. The proximate analysis of the chars and the determination of their calorific values have been carried out.

6. Subrahmanyam, S. and Madhavan Nair, A. P.: A study of the characteristics of the Low Temperature Tar obtained from South Arcot Lignite: J. Madras Univ. B., Vol. XXIV, No. 3, 393-401 (1954).

A complete study of the low temperature tar obtained from the lignite at 600°C has been made. Besides a determination of the physical characteristics of the tar, the work comprises distillation of the tar into several fractions, alkali-extraction of the phenols followed by the fractionation of phenols and of the washed oil, determination of the quantities of the distillates, estimation of naphthalene, anthracene, pure phenol and pyridine bases.

7. Jagannadhaswamy, B. and Madhavan Nair, A. P.: Active Carbon from South Arcot Lignite: Current Science, **24**, 75-76 (1955.)

An investigation of different methods of preparation of active carbon from lignite and a study of the adsorptive properties of the products obtained has been described. Activating agents employed were steam, calcium chloride, zinc chloride and phosphoric acid.

8. Subrahmanyam, S. and Madhavan Nair, A. P.: Germanium in the South Arcot Lignite Ash: J. Sc. Ind. Research, Nov. 1955. The Germanium content of South Arcot Lignite Ash has been estimated both polarographically and gravimetrically as Cinchonine germano molybdate. The effect of the temperature of ashing on the percentage of germanium has been studied.
9. Subrahmanyam, N. and Janardhan, P. B.: Colorimetric Estimation of Tin using Phosphomolybdic acid reagent: Jr. Sc. Ind. Research, October, 1955.

Colorimetric estimation of tin with this reagent has been examined and the method has been so developed as to eliminate the usual method of extraction of molybdenum blue with solvent prior to the colour measurement. The limit of estimation of tin has also been determined.

10. Subrahmanyam, N. and Janardhan, P. B.: Controlled Potential Electrogravimetric Analysis: J. Madras Univ. B, Vol. XXV, No. 3, Dec. 1955.

The work carried out in this laboratory on the estimation of tin by controlled potential electrodeposition from acid as well as alkaline solutions is described. A study of

the work done on the application of this method for the analysis of other metals like Cu, Bi, Sb and Pb. is also made as a review.

IV. No. of Research Fellows, Students, Government of India Scholars etc:

Three Government of India Research Scholarships are available to the Department for Research. One of them at present is vacant. Two University of Madras studentships have been made available this year. Out of the two Government of Madras Scholarships made available this year, one has fallen vacant. There are at present two non-stipendiary Research students working in the Department. The two Government of India scholars are working on projects in the design of extraction columns and extractive distillation respectively. The other Research students are working in the fields of liquid-liquid extraction, heat transfer, utilization of lignite and electroanalytical technique.

V. Strength of Classes etc:

The results of B.Sc. (Tech.) Examinations held in April-May 1955, are as follows:

	Part I		Part II	
	No. of students appeared.	passed.	No. of students appeared.	passed.
Chemical				
Engineering ...	26	14	30	23
Textile				
Technology ...	12	7	13	11
Leather				
Technology ...	3	2	2	2

New admissions were made in July 1955, after the interviews by the Special Committee appointed by the

Syndicate. The number of students admitted to the different departments (Part I) is as follows:

Chemical Engineering	...	32
Textile Technology	...	12
Leather Technology	...	8

Three students have since withdrawn: one in Chemical Engineering and two in Textile Technology.

VI. Conferences, Foreign Students, Industrial Tour, Technical Association Meetings and Symposia, Industrial Liason, Factory Training Postings etc :

Conferences and Committees:

Dr. G. S. Laddha was deputed to attend the Conference of Indian Institute of Chemical Engineers held at Baroda in 1955. He continues to serve on the All India Board of Technical Education as the nominee of Inter-University Board of India and also on the Equipment Committee of the All India Board of Technical Studies in Chemical Engineering and Chemical Technology.

Sri V. S. Jayaraman, Reader in Engineering was deputed by the University to attend the Annual Conference of the Institution of Engineers at Hyderabad and he read a paper on "Engineering Research" in the Symposium of Engineering and Technological research. He was appointed a member of the visiting committee of the Institution of Engineers to inspect the Chemical Engineering Department of Delhi Polytechnic for recognition by the Institution.

Sri A. P. Madhavan Nair, Reader in Chemical Technology was deputed to attend the Indian Science Congress Session held at Baroda in January 1955. He read a Paper on "Studies on the low temperature carbonization of South Arcot Lignite and on the properties of the products obtained".

Industrial Tour:

The usual educational tour round Chemical Industries in South India was split into two schedules one in Dasara Holidays to Mysore State and the second in Christmas Holidays to Malabar and other places.

Technical Association Meeting and Symposium:

A number of Technical Reports on Design problems were prepared by the students and presented for discussion at the student seminars. A number of Technical meetings were arranged when the experts and leading industrialists of various Chemical industries were invited for lectures and discussion.

A symposium on "Chemical Industries in South India" was held under the auspices of the Chemical Engineering Group of Association of Technologists on March 27, 1955. Welcoming the gathering Dr. G. S. Laddha emphasized the need for planned development of Chemical Industries in South India. Mr. K. K. Raman, Director, Mettur Chemicals Ltd., Mettur Dam, Mr. K. Viswanathan, East Asiatic Co., Madras, Dr. C. V. S. Rathnam, Lignite Project, Neyveli, M. M. D. Vijayaraghavan, India Rare Earths Ltd., Alwaye, Prof. B. M. Das, Director, Central Leather Research Institute, Madras, Mr. S. Ramaswamy, Mettur Chemicals, Mettur Dam and Mr. V. S. Jayaraman, Alagappa Chettiar College of Technology, Madras, participated in the symposium.

Liaison with Industry:

Sri B. Chennakesavan, Senior Lecturer in Chemical Engineering, on deputation by the University at the request of Madras State Government visited the Modern Quinine Factory at Annamallis and gave a technical report on the working of the plant. Technical advice for

process development has been given to a number of industrial establishments on their enquiries.

Factory Training Postings:

Arrangments were made for the Practical Training of our students in the following Factories:

1. Travancore Cochin Chemicals Ltd., Alwaye.
2. Assam Oil Co., Digboi, Assam.
3. Associated Cements Co., Ltd., Madukarai.
4. Mettur Chemical & Industrial Corporation, Mettur Dam.
5. Atul Products Ltd., Bulsar.
6. Fertilizers & Chemicals Ltd., Alwaye.
7. Indian Aluminium Co., Ltd., Alwaye.
8. East Asiatic Co. (India) Ltd., Madras.
9. Parry & Co., Nellikuppam Sugar Factory, Nellikuppam.
10. Mysore Sugar Co., Ltd., Mandya.
11. Travancore Rayons Ltd., Rayanpuram, Alwaye.
12. Lever Brothers (India) Ltd., Bombay.
13. Fertilisers & Chemicals (Travancore) Ltd., Alwaye.
14. Mysore Fertilisers & Chemicals Ltd., Belagula.
15. Mysore Iron & Steel Works, Badravathi.
16. India Cements Ltd., Talaiyuthu.
17. Dunlop Rubber Co. (India) Ltd., Sahaganj, West Bengal.
18. East India Distillaries Ltd., Ranipet.
19. Sindri Fertilizers & Chemicals Ltd., Sindri.
20. Tata Chemicals Ltd., Mithapur.

(b) Textile Technology.**I. Staff :***Professor :*

Sri B. C. Mohanty, B.Sc., M.Sc. (Leeds).

Reader in Weaving :

Sri S. Krishnamurthy, B.Sc., B.Sc. (Tech.)

Senior Lecturer in Spinning :

Sri R. A. Quraishi, B.Sc., B.Sc. (Tech.)

Junior Lecturer in Textile Chemistry :

Sri O. K. Balakrishnan, B.Sc., D.C.T.

Artist Designer :

Sri R. Madhavan (Diploma in Fine Arts).

Instructor :

Sri B. S. Venkatasubba Rao, B.Sc. (Textiles).

Instructor in Weaving :

Sri T. Muniratnam.

Instructor in Spinning :

Sri B. S. Krishnamurthy (Supervisor Certificate in Dyeing, Finishing, Powerloom Spinning and Weaving.)

II. Topics on which Research is in progress:

Research work is progressing on the following problems:

1. Warp Tension Control.
2. Dependence of air permeability & wear on Cloth Structure.
3. Structure and Strength of Fabrics.
4. A simple device for cylinder reversing in Jaquard Weaving.

III. Works published during the year :

A paper on air permeability and cloth structure is under publication in the Indian Textile Journal.

IV. Research fellows, students and Government of India scholars :

Government of India Scholar	...	1
Government of Orissa Scholar	...	1

Two Government of India Scholarships were conferred to two students for their training in (1) B. & C. Mills, Madras and (2) Tata Mills, Bombay.

V. Lecture Classes :*Examination Results :*

The results of the B.Sc. (Tech.) Degree Examinations held in April-May, 1955 are as follows :—

- (a) Thirteen students appeared in Part II Examination and eleven have passed including five in the First Division.
- (b) Twelve students appeared in Part I Examination and seven students passed completely and all of them were promoted to the Second Year Class.

New Admissions in July 1955 :

Twelve students were admitted to the First Year Course in Textile Technology. Two students have since withdrawn.

VI. General :*Conference :*

Mr. B.C. Mohanty, B.Sc., M.Sc. (Leeds), Professor of Textile Technology, attended the Twelfth All India Textile Conference held at Calcutta during March, 1955.

Foreign student :

Under the Government of India Cultural Fellowship for Foreign Students, one student* from Burma completed the B.Sc. (Tech.) Course in Textile Technology in the year 1955.

Tours :

The usual Educational Tour was conducted by Sri O. K. Balakrishnan, Junior Lecturer in Textile Chemistry and Sri R. A. Quraishi, Senior Lecturer in Spinning for the First and Second Year Students respectively. The First Year Students were taken to Bombay and the Second Year Students were taken to Bangalore, Mysore, Chennapatna and Coimbatore.

Technical Association Meetings & Design Work :

The students with the help of the Artist Designer produced original designs on furnishing fabrics. Seminars and lectures on various subjects were arranged as usual.

Factory Training Arrangements :

Arrangements were made for the Practical Training of our Students in the following Mills:

1. Sri Meenakshi Mills, Madurai.
2. Azam Jahi Mills, Hyderabad.
3. Coimbatore Spinning & Weaving Mills, Coimbatore.

(ii) Stochastic models with time-trending coefficients.

(iii) Estimation of correlation from non-normal bivariate populations.

2. A draft report has been prepared based on the analysis of the results of the sample survey of college students.

3. Works prepared for publication:

- (i) Approximate correlograms of certain stochastic schemes with time-trending coefficients.
- (iii) Censored samples from normal populations.
- (ii) Index Numbers (for Tamil Encyclopaedia)

Work published: Estimation and Tests of Significance of the components of a time-series (Sankhya).

V. Research Scholars :

One thesis submitted for the M.Sc. Degree was approved for award of the degree and two theses were submitted during this year.

At the commencement of the year there were two Government of India Scholars, one Senior and one Junior. On completing the period of award, the Senior scholar left the Department by the end of April 1955. The nature of work undertaken by him is given in topic 1 (i) of item IV above. The Junior scholar was relieved on 4th July, on request, to take up a teaching position. He continued work on topic 2 specified in item III.

One Junior Research scholar joined the Department on 25th February 1955. He registered for the topic 1 given in item IV above.

- 4. Empress Mills, Nagpur.
- 5. Vasantha Mills, Coimbatore.
- 6. Mysore Spinning & Manufacturing Co., Ltd., Bangalore.
- 7. B. & C. Mills, Madras.

(c) Leather Technology.

(Central Leather Research Institute)

I. Staff:

- i. Sri B.M. Das, M.A., M.Sc. (Leeds), Hon. Professor of Leather Technology.
- ii. Dr. Y. Nayudamma, Ph.D., Hon. Reader in Leather Technology.
- iii. Dr. E. C. Mathew, B.Sc. (Tech.), Ph.D.
- iv. Dr. S. N. Sen, D.Phil.
- v. Dr. S. N. Bose, Ph.D.
- vi. Mr. A. Ganesan, B.Sc. (Tech.)
- vii. Mr. S. K. Mitra, Dip. in Leather Technology.
- and viii. Mr. M. Udaya Varma, B.Sc. (Tech.)

II. Topics on which Research is in progress:

- i. Studies on Vegetable Tanning.
- ii. Constitution of Indian Vegetable Tanning Materials.
- iii. Studies on Combination tannages.
- iv. Studies on Chrome Tanning-Neutralisation of Chrome tanned leather.
- v. Studies on the theory and practice of Semi-chrome tanning.
- vi. Studies in Chrome-vegetable combination tannages.
- vii. Studies in the theory and practice of Leather finishing.
- viii. Studies in Mineral tannages.
- ix. Studies in Fatliquors.
- x. Studies on Syntans.

- xi. Polarography in Leather Research.
- xii. Studies in Aldehyde tannages.
- xiii. Studies on Enzymes with reference to their use in Leather manufacture.
- xiv. Study of the Indian vegetable tanstuffs and the effects of their properties on the quality of leather.
- xv. Investigation on the acid and salt content of the Common Indian vegetable tanning materials.
- xvi. Effect of Chemical and Ionic characteristics of basic chrome salts in chrome liquor on the tanning properties.
- xvii. Syntans from coal tar distillation products.
- xviii. Studies on the mechanism of tanning.
- xix. Studies on one bath chrome liquors.
- xx. Biological studies of Indian goat and sheep skins with emphasis on grain quality due to different places of origin of the animals and causes for coarse and fine grain.
- xxi. Histological and Micro-tannological studies of Indian buffalo and cow hides under normal and abnormal conditions.
- xxii. Studies on the Physico-Chemical nature of tan particles in relation to the Mechanism of Vegetable tanning.
- xxiii. Studies on variation of Physico-Chemical properties and the quality of leathers.

- xxiv. Studies on the Microbiology of some vegetable tan liquors.
- xxv. Studies on some micro-biological problems in Leather Industry.
- xxvi. Studies on the Bacteriological and Chemical aspects of the curing of Indian hides and skins.
- xxvii. Studies on Microbial enzymes with reference to leather manufacture.

III. Works published during the year:

The following papers have been published by those who have registered for Research Degrees of the Madras University:

1. Weight giving property of some vegetable tannins.
2. Moulds on Finished leather—Part I.
3. Mechanism of unhairing skins and hides by means of certain Proteolytic or Aniylyolytic Enzymes.
4. Molecular weight and bound water of some Indian Vegetable Tan Materials (Part I).
5. Applications of Nomography to Leather Industry—I.
6. Arecanut as a Tanning Material.
7. Studies on the Bacterial Flora of raw Hides and Skins that cause hair slip.
8. Survey of the Indigenous tanning materials of the Madras State—Part III.
9. Investigations on the curing of Hides and Skins—Part II.
10. Photomicrographic Study of Cracky leather.

11. Fat-Liquors—Part I.
12. A new method for the demonstration of Reticulin.
13. Decoration of Leather.
14. Chemical Engineering principles of hot air stuffing Drum.

IV. Number of Research works:

i. Research fellows	...	Nil.
ii. „ Students	...	„
iii. Government of India Scholar	„	„
iv. Qualified for Ph.D. Degree	...	1
v. Submitted thesis for M.Sc. Degree during the year and results awaited	...	1 (Jan. 54)
	...	1 (Aug. 54)
	...	2 (Aug. 55)

V. Lecture Classes Etc. :

Lectures are given in the theory and practice of Leather Manufacture for the B.Sc. (Tech.) Degree in Leather Technology. The number of lectures given is 540. The number of students for the course is detailed below:—

I year course	...	8
II do	...	3
III do No. passed out in the year.		2

VI. Other General Information.

Dr. E. C. Mathew has been deputed by the Central Leather Research Institute for advanced training at the University, Leeds, under the Colombo Plan.

17. DEPARTMENT OF SANSKRIT

I. Staff :*Professor :*

Sri V. Raghavan, M.A., Ph.D.

Senior Lecturer :

Sri K. Kunjunni Raja, M.A., Ph.D.

Junior Lecturer :

Sri S. Subrahmanya Sastri, M.A.

II. Professor :

The Professor was promoted to the present post from that of the Reader from 1st April 1955.

During the year the Professor was recipient of an award for distinguished Research work—the Dr. P.V. Kane Gold Medal from the Bombay Royal Asiatic Society.

The Professor, assisted by the two Research Assistants and one clerk, continued the work of the New *Catalogus Catalogorum*. During the year, 29 catalogues were indexed; the material so collected amounted to 25,000 cards and slips; 64,000 slips were checked and arranged. The further critical work for the matter of the Second Volume was also taken on hand. The Professor is also revising the catalogue materials he had brought from Europe.

He completed the work on the book "Sanskrit and Allied Indological Studies in Europe" and submitted its typescript to the University for publication. The printing of the text of the *Nrttaratnavali* which he was permitted to edit for the Government Oriental Manuscripts Library, Madras, was finished during the year. The critical introduction to the same is under print. He also prepared seven Research papers which were published in learned periodicals and volumes.

During the year he was also directing the work of six Research students including two for M.Litt. and one for Ph.D. The subjects of their research are :

M.Litt. thesis (submitted) :

Vidya Chakravartin's Alankarasarvasva.

M.Litt. thesis (to be submitted) :

Bharthruhari's unpublished commentary on the Mahabhashya.

Ph.D. :

Subandhu's Vasavadatta.

Other Research Students :

Bibliographical History of Visishtadvaita literature, Bibliographical History of Advaita literature, Dharmasastra in Kerala.

He took classes for the Sanskrit Honours students.

He attended as Convenor, the meeting of the Sanskrit Board of the Central Sahitya Akademi, the meeting of the Central Advisory Board of Archaeology, the University Sanskrit Professors' Conference both convened by the Ministry of Education, the Samskrita Visva Parishad, Tirupati, the Social Sciences Conference at Madras which was patronised by the University, and the All India Oriental Conference at the Annamalai University.

III. Senior Lecturer :

The Senior Lecturer completed the printing of the Sanskrit Text of the Unadikosa of Mahadeva. He is continuing his studies on Indian Semantics on which subject he published two papers during the year. He prepared a third paper for the All India Oriental Conference. He lectured to the Honours students and the German student Mr. Titelbach (classical texts and

grammar). He attended the Samskrita Visva Parishad and the All India Oriental Conference at the Annamalai University.

IV. Junior Lecturer :

He completed the printing of the Sanskrit Text, Vedanta Kaumudi in the University Sanskrit Series and of the Abhoga on Kalpataru on whose edition he was permitted to collaborate for the Government Oriental Manuscripts Library, Madras. The Bhattadipika with commentary edited by him is being printed, and adhyayas 4 and 5 were completed during the year. He is continuing his work on the Samkarshakanda with Bhashya.

V. Foreign Scholars :

During the year a German student Mr. Klaus Commann who was permitted to receive teaching in Sankhya, Yoga and Vedanta in the Department Completed his work and having creditably passed with first rank in the Calcutta Sanskrit Examination, left for Germany.

Prof. Norman Brown of Pennsylvania University, U.S.A., who was attached to the department as Fulbright scholar completed his work and left for U.S.A. Collation and other manuscript work for the text Soundaryalahari to be edited by him were arranged and supervised by the Department.

18. DEPARTMENT OF TAMIL

I. Staff :

The Rev. Lazarus Professor of Tamil:

Sri K. P. Sethu Pillai, B.A., B.L.

Senior Lecturer :

Sri M. A. Dorairangaswami, M.A., M.O.L., Ph.D.

Junior Lecturer :

Sri B. R. Purushotham Naidu, Vidvan.

II. Professor :

(a) *Topics on which Research is in progress :*

1. A treatise on "Sollin Selvam" (The Wealth of Words in Tamil Literature).
2. A Study of the Diary of Anandaranga Pillai.
3. "Kambar Kavi Inbam"—A series of articles contributed to literary journals are being revised.

(b) *Works which are being printed :*

1. "Dravidian Comparative Vocabulary"—prepared by the Heads of the Dravidian Languages Departments.
2. Re-printing of parts of the Tamil Lexicon (suspended since October, 1955).
3. The Presidential Address of the Dravidian Section of the Eighteenth Session of the All India Oriental Conference at Annamalainagar.

(c) *Works published during the year*

1. An English Commentary on "Tirukkural" by F. W. Ellis with notes and explanations.
2. An article on "Kambar and Kambaramayana" was contributed to the Tamil Encyclopædia.
3. "The Contribution of Professor Sundaram Pillai to Tamil Philology" was contributed to the Special Number of 'Tamil Nadu' (Madurai).

(d) General Information :

1. The Professor served on the following Committees :—
 - (i) Expert Committee of the Government Oriental Manuscripts Library, Madras.
 - (ii) Bharati Works Publication Committee constituted by the Government of Madras.
 - (iii) Editorial Board of Tamil Encyclopaedia, University Buildings, Madras.
 - (iv) The Advisory Board (Tamil) of the Sahitya Akademi, New Delhi, and prepared an anthology of the best Tamil poems published in 1953.
 - (v) The Nation Bibliographical Committee (Tamil) constituted by the Sahitya Akademi, New Delhi.
 - (vi) The Kamba-Ramayanam Committee constituted by the Annamalai University for the publication of that classic.
2. Delivered three lectures on "Dravidian Philology" at the Annamalai University, Annamalainagar.
3. Mr. Heinz Tittelbach, Government of India Fellow under the Indo-German Industrial Co-operation Scheme, was given instructions in the Tamil Language.

III. Senior Lecturer :*(a) Topics on which Research is in progress :*

The Etruttokai (Eight Classical Anthologies)—

1. Patirappattu—A Commentary is being attempted.
2. Narrinai—200 verses critically studied.

(b) Works completed during the year:

1. The manuscript copies of the work on "Religion and Philosophy of Tevaram with Special Reference to Sundarar" in four Parts have been typewritten and made ready for publication.
2. A Research article on "Manamumkallum" contributed to "Kalaikkathir".
3. An article on 'Nadengum Valak-kedonrum Illai' contributed to the Desiya Manram Annual Issue.
4. An Article to the Commemoration Volume of Desikavinayagam Pillai on 'Maraindum Maraiyathavar'.
5. A commentary on 'Tiruvembavai of Tiruvachakam' written and given to His Holiness Sri Sankaracharya Swamigal for publication.
6. A Research article on 'Silambu Neri' in Tamil.

(c) Lecture classes etc.:

Weekly classes to the B.A. (Hons.) and M.A. Students of the Presidency and Pachaiyappa's Colleges on South Indian Inscriptions.

(d) General Information:

1. Gone through 62 forms of the proof of Caldwell's Comparative Grammar which has been taken for publication by the Madras University.
2. Gone through the proofs of the Tamil Lexicon for about two months till the work was directed to be stopped.

3. The manuscript copy of 'Kolachala Talapuranam' is being scrutinized at home for publication by the Government Manuscripts Library, the editing of which has been offered to him.

V. Junior Lecturer :

I (a) *Topics on which Research is in progress :*

“ Tiruvaymozhi—Ittin Tamilakkam ”.

(b) *Works completed during the year :*

The printing of the 5th and 6th volumes, entitled “ Tiruvaymozhi—Ittin Tamilakkam ” with appendices.

V. Number of Research students and fellows :

There is one Research fellow in the Department working on “A Critical Study of Purananuru”. There are at present five Research students (two stipendiary and three non-stipendiary) in the Department. They are working on the following subjects:—

- (i) A Critical Study of Purapporul Literature in Tamil.
- (ii) A Study of the Vocabulary of Silappadhikaram.
- (iii) Correct Vocabulary and its Corruptions.
- (iv) Buddhist Influence on Tamil Literature with Special Reference to Manimekhalai.
- (v) A Critical Study of Kurunthogai.

There is also one Government of India Research Scholar who is working on “Historical Grammar of the Telugu Language”.

19. DEPARTMENT OF TELUGU

I. Staff :*Senior Lecturer :*

Sri N. Venkata Rao, M.A.

Junior Lecturer :

Sri S. Ramakrishna Sastri, M.A., B.O.L.

II. Topics on which Research is in progress and works completed—In progress :*Senior Lecturer :*

1. History of Linguistic Studies in Telugu Middle Period—Telugu Grammars in Company's Days—Materials collected and studied.
2. A Comparative Vocabulary of Dravidian Cognates—under print.
3. Investigation into the Grammatical and Prosodical Peculiarities of Telugu according to Lakshanakararas. A study of more than 50 Grammatical Forms was completed and a further Study is undertaken.
4. Language of Nannaya, the first Telugu Poet. Three articles have been prepared on the subject.
5. Revision of Lives of Telugu Poets—Vol. II, Part II.

*Junior Lecturer :***In Progress—**

Collection of materials for the work entitled **History of Language and Dravidian Philology.**

III. Works completed (in course of printing):

History of Telugu Literature upto 1350 A.D. by the Junior Lecturer.

IV. Research students:

One Government of India scholar is working on the subject—Saivism in Telugu Literature and its contribution to South Indian Culture.

One Research student qualified for the Research Degree Ph.D.

V. Diploma or other lecture classes:

Lecturing work for two hours a week for the Telugu B.A. (Hons.) and Post-graduate students of the Presidency College on South Indian History and Inscriptions.

Strength : 12

Lectures : 32

20. DEPARTMENT OF KANNADA

I. Staff:

Reader and Head of the Department :

Sri M. Mariappa Bhat, M.A., L.T., Vidvan.
(On Study leave from 10-9-55 and has proceeded to U.K.)

Junior Lecturer:

Sri M. Govinda Rao, M.A., B.O.L. in-charge of the Department from 10-9-55.

II. Topics on which Research is in progress :*Reader :*

1. 'History of Kannada Literature'—Collection of further materials on the subject.
2. 'Desi Element'—A Research Work on Dialects—Revision in the light of fresh information gathered.
3. 'Dravidian Comparative Vocabulary'—A joint work being published by all the Dravidian Languages Departments.

Junior Lecturer in-charge :

1. 'Nature in Kannada Poetry'—Collection of materials from Old classics and from other sources.
2. 'Haridasa Literature in Kannada'—Revision of the work in the light of further information obtained.
3. 'Lives and Works of some Yakshagana Poets'—being published in the Annals of Oriental Research, Vol. XII.

III. Works completed or published :

(Joint work of the Reader and the Junior Lecturer)

Jataka Tilakam of Sridharacharya (a pictural work on astrology of the beginning of the 11th century)—with a critical introduction—published for the first time.

Reader :

1. A Paper on 'Historical Matter contained in the Puranas'.
2. A Bibliography of Works on Kannada Grammar and Dictionaries.
3. A Paper on 'Some Obsolete Words in Kannada'—being published in the Annals of Oriental Research, Vol. XII.

Junior Lecturer-in-charge:

1. A Paper on 'The Contribution of Karnataka to Indian Culture'.
2. A Critical Introduction to Vishnu Purana, a work of Chikupadhyaya of Mysore.
3. Correction of Proofs of Caldwell's Comparative Grammar of Dravidian Languages.

IV. Diploma or other Lecture classes etc. :*Reader:*

Four hours of lecturing work per week to the Kannada Honours and Post-graduate students of the Presidency College on History of Language and Philology till he went on leave on 10-9-1955.

Junior Lecturer-in-charge:

Three hours of lecturing work per week till 10-9-55 on 'History of Literature, Literary Criticisms and Inscriptions' to the Honours and Post-graduate students of the Presidency College; 7 hours of lecturing work from 10-9-55 to the above students on the above subjects and also on Philology.

V. General :*Reader:*

1. Continued to be the Editor of the Annals of Oriental Research.
2. Served on the Provincial Library Committee.
3. Served as a Member of the Expert Committee of the Government Oriental Manuscripts Library.

Junior Lecturer-in-charge :

1. Served on the Sub-Committee appointed for preparing syllabuses for the Pre-University and Three-year Degree Courses.

2. Served on the Committee appointed for selecting the best books in Kannada on Research Novels and Biographies for the award of prizes by the Madras Government.
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21. DEPARTMENT OF MALAYALAM

I. Staff:

Senior Lecturer:

Sri S. Krishnan Nayar, M.A., Ph.D.

Junior Lecturer:

Sri K. N. Ezhuthachan, M.A.

II. Topics on which Research is in progress and works completed:

Senior Lecturer:

1. The Ballads of North Malabar, Vol. III.
2. The Folk-Dance of Kerala.
3. Dravidian Cognates.
4. The Early Beginnings of Malayalam (joint work with the Junior Lecturer.)
5. The Sasta Cult in Kerala.

Item (1) has been completed during the year. Research work on the other topics are in progress. Item (3) is a joint work with the Heads of the Departments of other Dravidian Languages. The printing of the work is in progress.

Junior Lecturer:

1. Linguistic and Philological Studies in the Mediaeval Malayalam.
2. The Serpent Worship in Kerala.

Under item (1):—

- i. Editing of Ramacharitam, the most important mediaeval poetical work in Malayalam is completed (the work contains more than 1,800 stanzas.)
- ii. The unpublished portions (4 Adhikaranas or chapters) of Bhasha Kautaliyam, the greatest mediaeval prose work in the language have been edited.

Detailed study of old literary works and inscriptions is being continued.

Research is in progress as regards item No. (2).

III. Works published during the year :

Senior Lecturer:

1. Keralathile Nadodi Natakangal (The Folk-drama of Kerala—Madras University Malayalam Series No. 12.)
2. Another Nalacharitam Kathakali (published as bulletin.)
3. History of Malayalam Language (contributions to the Tamil Encyclopaedia.)
4. The Dance and Drama of Kerala (contributions to the Tamil Encyclopaedia.)

Junior Lecturer:

Tarooswarupam (published in the Annals of Oriental Research, Vol. XII.)

IV. Number of Research Fellows etc. :

During the year there were 3 Research students (stipendiary), their topics of research being the following:—

1. A Study of the Nalacharitam by Unnayi Variyar for M.Litt. Degree.

2. History and Evolution of Malayalam Script for M.Litt.
3. A Study of the Place-names of Malabar for M.Litt.

There were two students for Ph.D.: one full-time and one part-time, their respective subjects being (1) The Origin and Development of Kathakali, and (2) Bhasha-Kautaliyam—A Linguistic Study.

V. Diploma or other Lecture classes :

Senior and Junior Lecturers are taking classes to the Honours and Post-graduate students of the Presidency College on the Inter-collegiate Co-operation basis—8 hours per week.

22. DEPARTMENT OF ARABIC, PERSIAN AND URDU.

I. Staff :

Senior Lecturer in Arabic, Persian and Urdu :

Mr. A. S. Usha, B.A. (Aligarh).

Junior Lecturer in Urdu :

Mr. Muhammad Yousuf Kokan, M.A.

Mr. A. S. Usha was in-charge of the Department till 15th July 1955 and he was made Senior Lecturer in Arabic, Persian and Urdu, from 16th July 1955.

II. Senior Lecturer :**(a) Works in progress :**

Tarikh-i Khan-i Jahani by Khwaja Nimatullah (A History of the Afghans and their rule in India upto the extermination of Sher Shah's dynasty): Press copy has been completed.

The following works have been supplemented to the above one :—

(i) *Waqai-i Mamlukat-i Adli wa Baz Bahadur wa Karraniyan wa Lohaniyan* by Ibrahim Batni.

(A Short History of the rule of other Afghan tribes in India)

(ii) *Tadhkira-i Awliya wa Urafa-i Taifa-i Afghaniyya* by Ibrahim Batni.

(Biographical Sketches of Afghan Saints and mystics).

(iii) *Tadhkira-i Silsila-i Afghaniyya* by Ibrahim Batni.

(A detailed geneology of the Afghan tribes).

Works published during the year :

(a) *Fath Nama-i Mahmudshahi* in the Annals of Oriental Research, University of Madras, Vol. XI, Part I.

(b) Work in the Press :

Kanz-ul-Fawaid by Husain Muhammad Shah who flourished during the reign of Sultan Alauddin Khilji (1295-1316 A.D.). So far introduction comprising 16 pages and 20 pages of the text have been printed.

III. Junior Lecturer in Urdu :

1. The following works were completed during the year :—

- (a) *Sabhat* by Shah Abdul Qadir Fakhri.
- (b) *Baharistan-i-Ishq* by Azizuddin Nami.

2. The following is the topic on which research is in progress :—

Makatib-i-Baqir Agah.

3. The following work was printed during the year. It is not yet published :

Mathnawi-i-Naw Bahar-i-Ishq by Azizuddin Nami.

Works published:

A portion of article on the life and works of Moulana Baqir Agah of Vellore was published in the *Annals of Oriental Research, University of Madras, Vol. XI, Parts I & II.*

23. DEPARTMENT OF HINDI.**I. Staff:**

Senior Lecturer:

Sri S. Shankar Raju Naidu, M.A., 'Sahitya Ratna' Honours in Hindi.

II. Topics on which Research was carried on during the year :

1. Tirukkural (Tiruvalluvar Aur Hindi Ke Suktikar)—A Comparative Study with a complete translation.
2. Bhakti Dravida Oopaji—A Study of the Origin of Bhakti Cult.

3. Kavichakravarti Kambar—A General Survey.
4. Tirukkural—The Great Scripture.
5. Tamil Shaiva Saint Tirunavukkarasar or Appar.
6. Progress of Tamil Literature after Independence.
7. Comparative Study of Ramayana by Kambar and Tulsidas under the supervision of Prof. R. P. Sethu Pillai, Head of the Department of Tamil.

III. Works published and completed during the year :

1. Kambar and Tulsi—The printing of the matter is completed.
2. Translation of Tirukkural is completed and is ready for publication.
3. Five radio talks were broadcast from Madras, in pursuance of their educational programme on the following subjects :—
 - (i) Bundell and Chattisgadhi—A Study of Folk-songs.
 - (ii) The Life and Work of Maluk Das.
 - (iii) Ramacharita Manas—Yuddha Varnana.
 - (iv) Mahakavi Bhushan.
 - (v) R a m a c h a r i t a Manas—Charitrachitran—Ravana.
4. Bhakti Dravida Oopaji—Published in Hindi Prachar Samachar, Madras.
5. Kavichakravarti Kambar—Submitted to be published in the forthcoming Rashtrakavi Maithilisanan Gupta Commemoration Volume.

6. Tirukkural—The Great Scripture—Read in the 'Seminar on the Great Scriptures of the World' held at Bangalore.
7. Tamil Literature and its Modern Trends—Published in the Diamond Jubilee Commemoration Volume, Nagri Pracharini Sabha, Banares.
8. Chilappadhikaram — Published in 'Pratibha', Nagpur.
9. (i) Tamil Shaiva Saint Tirunavukkarasar or Appar—Submitted to be published in Ajkal, a monthly run by the Ministry of Information and Broadcasting, Government of India.
- (ii) Progress of Tamil in Independent India—to be published in the Annual Number of the above paper.

IV. Research Student:

One non-stipendiary student for M. Litt. Degree is conducting research.

V. Other General Information:

1. Read a paper on Tirukkural—The Great Classic in the Seminar of the Great Scriptures of the World held at Bangalore.
2. Submitted a paper on Kambaramayanam—A Source for Tulasi Rama Charita Manas in the Eighteenth Session of the All-India Oriental Conference, Annamalainagar, as a delegate of the University.

24. DEPARTMENT OF INDIAN MUSIC.

I. Staff :*Reader :*

Sri P. Sambamoorthy, B.A., B.L.

Assistants :

Sri Kalidass N. Nilakanda Aiyar (Vocal)

Sri M. Udayavarmarajah (Veena)

Sri Madura S. Subramanya Aiyar (Violin)

II. Research work done during the year:

1. Factors that contribute to the creation of rasas in musical forms belonging to the realm of Applied Music.
2. Materials used in the manufacture of musical Instruments of the ancient and mediaeval periods.

Publications :

1. *Pallaki Seva Prabandham*: an opera in Telugu by Shahaji Maharajah with the songs in Notation.
2. The second and enlarged edition of the Descriptive catalogue of Musical Instruments in the Madras Government Museum.

In the Press :

Dictionury of South Indian Music and Musicians, Vol. II.

II. Conferences :

- (a) Attended the First session of the South East Asian Regional Music Conference held in Manila, Philippines, in August, as the leader of the Music Delegation appointed by the Government of India. Presided over the

section relating to Music Creation and Musicology. Read a paper on "Music in India".

- (b) Attended the 18th session of the All India Oriental Conference, held in Annamalai University and read the paper on "Materials used in the manufacture of musical instruments of the Orient" in the Fine Arts section.
- (c) Presided over the sixth Tevaram Pan Research Conference held in Madras in December.

Articles and Papers contributed:

1. Musical Wealth in South Indian Temples.
2. The evolution of Bhashanga ragas.
3. Ramaswamy Dikshitar (1735-1817) and his contribution to South Indian Music.
4. Music depicted in stones and music given by stones.
5. Royal musicians, composers, musicologists and Patrons.
6. Gopalakrishna Bharati.
7. Gana rasa and Nava rasa.
8. Place of Kamakas in Indian Music.

Supervision:

The Reader guided the work of the Research students working in the Department and examined the Periodical reports submitted by them.

IV. Teaching work:

The Reader and the Assistants conducted the Music Diploma classes. All the seven candidates who sat for the Music Diploma examination in April 1955 passed.

There are 26 students undergoing the Diploma course in Indian music. There are 13 students in the I Year class and 13 students in the II Year class; 8 in the first year class and 9 in the second year class are studying vocal; 2 in the first year class and 3 in the second year class are studying veena; 3 in the first year class and 1 in the second year class are studying violin.

V. Reports relating to Research Students :

Srimathi S. Seetha (subject of research: The history of ragas and musical forms of South Indian Music 1600 A.D.) and Srimathi K. Annapurni (subject of Research: Poetic metres, and their influence on the growth of the Tala system), have submitted their theses for the M.Litt. Degree and are awaiting the results.

Srimathi R. Sakuntala, has submitted her Final Report on "The Ritualistic music of South Indian Temples".

25. DEPARTMENT OF COMMERCE. (Part-time)

I. Staff :

Income-tax Law & Practice :

Professor :

Sri P. D. Swaminadha Mudaliar, B.A.

Lecturer in Law :

Sri C. S. Sama Rao Saheb, B.A., B.L.

Lecturer in Auditing :

Sri B. Bhakthavatsalu Nayudu, B.A., G.D.A.,
F.C.A.

History and Principles of Co-operation and Co-operative Law :

Sri M. Madurai Nayagam, B.A., B.Com., Deputy Registrar of Co-operative Societies from 30th June 1954.

Sri Arthur S. Nathaniel, M.A., B.L., Deputy Registrar of Co-operative Societies from May 1955.

As before teaching is confined to :

- (i) Income-tax Law and Practice ; and
- (ii) History and Principles of Co-operation and Co-operative Laws ;

to the students of IV and V B.Com (Hons.) of Loyola and Pachaiyappa's Colleges on inter-collegiate basis.

In pursuance of a scheme sanctioned by the Government of India in consultation with All India Council for Technical Studies, a separate Diploma Course in Business Management was started in August 1955 under the auspices of the University.

II. Strength of Classes :

College.	IV B.Com. (Hons.)		V B.Com. (Hons.)	
	I.T. Law.	Co-operation.	I.T. Law.	Co-operation.
Pachaiyappa's	9	9	6	12
Loyola	9	9	6	12
Post-graduate	1	-	2	1
Total	19	18	14	25

There has been an increase in strength of Income-tax Law and Practice classes from 12 to 18 to cope with the demand on the suggestion of Professors of Colleges concerned.

The results of students who appeared in March 1955 with Income-tax Law and Practice and History and Principles of Co-operation and Co-operative Laws as their optionals are given below :

Subject	Post-graduate			B.Com.(Hons.)		
	I	II	III	I	II	III
Income-tax Law and Practice	-	-	-	2	9	1
History of Principles of Co-operation and Co-operative Laws.	-	2	-	2	19	4

The students with Income-tax Law Practice are having practical lessons in the course of their study in the University itself under the lecturer in Auditing.

Professor addressed the South Indian Chamber of Commerce on the Recommendations of the Taxation Enquiry Commission at one of the Quarterly meetings.

Lectures in Co-operation Theory and Law are given as usual in the University premises. But on every Saturday the students are visiting Co-operative institutions in the city for practical training along with their respective Lecturer (Deputy Registrar).

The students of V B.Com (Hons.) were taken during the Michaelmas holidays to Coimbatore District to show them the working of some of the special types of Co-operative Societies. From Coimbatore they were taken to the Nilgiris District to show them the working

of the "Controlled Credit Scheme". The students received all the help required from the President of the Chamber of Commerce, Shri C. S. Ratnasabhpathy Mudaliar, O.B.E. Besides addressing them he gave valuable advices. This is the first occasion when the students were really much benefitted by the study tour. During Christmas holidays they were given audit training for 21 days and they prepared audit reports independently for a rural credit society, one store and one urban bank. The Lecturer in Co-operation, Sri M. Madurainayagam, also addressed the Commerce Association of the Pachaiyappa's College in connection with the All India Co-operative Day on "The Future of the Co-operative Movement in Madras."

The students taking Income-tax Law and Practice as optionals are attending classes on all week days including Saturdays but excluding Tuesdays.

The students with co-operation as their optionals are attending classes on Mondays, Wednesdays, and Fridays and on Saturdays they visit Co-operative Societies.

The attendance was very regular and the students of both the classes seem to evince great interest in their studies.

26. DEPARTMENT OF BUSINESS MANAGEMENT

General:

By a resolution D/November 30, 1945, of the Government of India in the Ministry of Education, the All India Council for Technical Education was formed. This Council, on 22nd April 1948, "resolved-that a Joint Committee representing the All India Board of

Technical Studies be constituted for the purpose of examining the question of training in Industrial Administration and Business Management, and to prepare the scheme for organising such training in the country". This was the first attempt ever made in India for providing a scientific course in Industrial Administration and Business Management which is assuming an increasing importance in the present day economic organisation.

The aim of the scheme is to provide an opportunity for men to develop themselves for positions of responsibility in private business or in the business of the Government.

The All India Council for Technical Studies and All India Board for Technical Studies in Management made suitable recommendations for a course in Business Management. With a grant from the University Grants Commission, the University of Madras started a Diploma Course in Business Management and the Department of Business Management came into existence in August 1955.

I. Staff:

Reader in Business Management:

G. V. Krishna Rao, M. A., B. L., M. B. A., (Columbia).

Reader in Commerce:

S. Velayudham, M. A., L. T., B. Com. (Hons.) (Lond.),
Dip. in Geog.

II. Topics on which research is undertaken now :

Reader in Business Management:

I. 'Managerial Techniques'.

2. 'Survey of personnel problems in the Indian Industry'.

Reader in Commerce:

1. 'Finance of Indian Railways since the separation of Railway Budget'.
2. 'Roads and Road Transport in India'.

Occasional Papers:

1. Price Policy of Co-operative Societies.
2. How much to spend on Roads?
3. Recent development in Social Accounting. (for Inter-Collegiate Lectures in January 1956.)

III. Lectures :

Each one of the Readers has three hours of lecture work in a week for the Diploma class in Business Management. In addition, Sri S. Velayudham gives two hours of lecture a week to the students of Diploma in Economics, Politics and Statistics.

There are twenty five students sponsored by the various Business firms, undergoing the Diploma Course in Business Management.

The attendance has been very regular and the enthusiasm and interest in the course is obvious.

APPENDIX E

Madras University Union

The Union has functioned normally during the year under review. Owing to severe cracks opening out in the walls of the Pavilion and the consequent flooding of the rooms, after consultation with responsible engineers, a decision was arrived at to pull down the Pavilion as it was becoming a menace. Plans for the new Pavilion were drawn up by the Architect, approved by the Syndicate, referred to the Central Government for grant and finally put into execution in the middle of January 1956.

The Membership of the Union continues to be small. The total strength stands at 35 (14 Madras Medical, 5 Loyola, 4 Pachaiyappa's, 3 Government Arts, 2 Vivekananda, 2 Christian, 2 Presidency, 1 Engineering, 1 Jain and 1 Alagappa College). The games which are being played regularly by the members are Tennis, Basketball, Cricket and Hockey. Apart from these games by the members of the Union, the Union grounds are continually in use for Inter-Collegiate and Inter-Divisional matches and for Trials to select the various University Teams.

As a result of the Inter-Divisional Tournaments, Madura Division won the Athletics, Tennis Singles and Volleyball, Trichur Division won the Hockey and Madras Division won the Cricket, Basketball, Football and Tennis Doubles. A departure was made this year with regard to the venue of the Inter-Divisional Athletic Tournament. Karaikudi was chosen as the venue for the Inter-Divisional Sports and thanks to the splendid arrangements and hospitality of the Management, the Meet proved to be very successful.

The University entered for the following Inter-University Tournaments :—Cricket, Hockey, Volleyball, Football, Basketball, Boxing, Tennis, Athletics and Badminton (Shuttle-cock). The Inter-University Trophies for Basketball and Tennis were won by Madras University. In Volleyball, Madras won the South Zone Finals and lost to Punjab in the All India Finals. Madras University also won the South Zone Finals in Hockey. In Inter-University Athletics, C. Sankaran of Pachaiyappa's College beat the Asian record (23' 7"), came first in long jump and Hop-step & Jump also, and Sundaralingam of Christian College got the first place in High Jump.

Women's Games & Sports

The Women's Inter-Divisional Tournaments were conducted in 3 Divisions; Madras, South and West. The following is the result of the various tournaments:—

- Tennis — Queen Mary's College, Madras Zone
- Tennikoit — Calicut, West Zone
- Badminton — Mercara, West Zone
- Net Ball — Women's Christian College, Madras Zone.

The Madras Division won the Inter-Divisional Athletics, thereby becoming the first holders of the beautiful cup presented by Dr. Rm. Alagappa Chettiar. As a result of the improvement in the women's records five athletes were entered for Inter-University Women's Athletics held at Bangalore. A record was put up by Doreen Williams of Govt. Brennan College, Tellicherry in Javelin (105' 11").

The Rev. L. D. MURPHY, S.J.,
*Hony. Treasurer, Madras University Union
 and Hony. Chairman, Madras University
 Tournaments and Sports Committee.*

APPENDIX F

National Cadet Corps

No. 2 Circle)

1. As usual the Annual Camps of all Senior Division Units of NCC for the training year 1954-55 were held in various places of Madras State during Dec. 54 and the Units returned to their Headquarters to continue their training for the rest of the training year.

2. A contingent consisting of 1 NCC Officer and 27 Cadets drawn from various Units under this circle was sent to Delhi to participate in the Republic Day Parade held on 26 Jan. 1955. Our contingent had the honour of winning the coveted Championship Banner for the best circle, this year. In addition, two individual awards were won by members of the team; Under-Officer Roshan Ali Beg who headed the contingent was declared as the best cadet and CSM Alva, K. S. won the trophy for the best athlete.

3. The NCC Sports Rally was held at Rajendra Sinhji Stadium Grounds on 5th, 6th and 7th Feb. 1955. Fifteen teams competed. His Excellency Shri Sri Prakasa, Governor of Madras presided over the function and gave away the prizes. The Championship Banner which was won earlier this year by the contingent from this Circle at the Republic Day Parade at Delhi was presented to the Governor as the head of Madras State, who later handed it back to the Circle Commander. A special feature of the Rally was the participation by the girl cadets of Girls Division.

4. Soon after the acceptance of the expansion proposals by the Union and State Governments the question of selecting Officer Cadets from Colleges and Schools was taken in hand. In April 1955 selections were made by the Selection Boards with the

Vice-Chancellor as Chairman in the case of officers for the Senior Division and the Director of Public Instruction in the case of officers for the Junior Division. The number selected and the places to which they were sent for pre-commission training are given below :

No.	Division	Centre	Remarks
13	Sr. Division Infantry.	Madras Regtl. Centre, Wellington.	All have successfully completed their pre-commission trg.
4	Sr. Dn. E. M. E.	E. M. E. Centre Trimulgherry.	do.
1	Sr. Dn. Girls.	Raj. Rifle Centre, Delhi.	Has been granted commission.
98	Jr. Army	Madras Regtl. Centre, Wellington.	90 have successfully completed their pre-commission trg.
3	„ Air	IAF Academy, Begumpet.	All have successfully completed their pre-commission trg.
11	„ Girls	Kumaon Regtl. Centre, Ranikhet.	All have successfully completed their pre-commission trg.

Details of individuals sent for Refresher Training Courses are also given below :

No.	Division	Centre
11	Senior Dn.	Central NCC Officers Trg. Cadre, C/o Gorkha Trg. Centre, Dehra Dun.
39	Junior Dn. Army	Refreshers Trg. Cadre, Combined Cadre and Social Service Camp, Ambathurai.
5	Junior Dn. Air Wing	No. 1 IAF Academy Begumpet.

5. The third Combined Cadre and Social Service Camp was held at Chinnalapatti in Madurai Dt. from 24 Apr. 55 to 14 May 55. 19 NCC officers and 600 NCC cadets drawn from 10 different Senior Division Units attended the Camp. Chinnalapatti is a village near Ambathurai Railway Station. A road connecting this village with Athur has been a long felt need and the Community Project Administration included this work in their Scheme. The request for taking in hand the construction of this road by the cadets during the Camp was made by the Director of Community Project and it was accepted.

6. The Social Service work was inaugurated by Sri N. E. S. Raghavachari, Director of Community Projects on the morning of 28th April '55. Four to five thousand villagers witnessed the function. The Social Service work done by the cadets in the Camp included (i) the construction of a road $3\frac{1}{2}$ miles long connecting Chinnalapatti with Athur (ii) construction of a minor road 1400 yds. long connecting Chinnalapatti with Ambathurai and (iii) desilting of the Muruganpatti tank and building of a bund round the tank. Shri M. Bakthavathsalam, Minister for Agriculture, visited the cadets at work.

7. The Officers and cadets of 6 Madras-Med. Coy NCC were in charge of the medical and sanitary arrangements. 5 Madras Sig. Sec NCC provided the Camp with a good telephone system and the Camp was connected with the Dindigul Exchange.

8. The new road constructed by the cadets was declared open, in an impressive ceremony, by Mrs. Soundaram Ramachandran, M.L.A, Project Executive Officer, Periyar Project, Gandhigram.

9. The Union Govt. and the Govt. of Madras have sanctioned the raising of two Independent Coys.

and 100 Troops in Madras State for the financial year 1955-56. The new Infantry Units have now been raised in the following colleges : --

Karaikudi Ind. Coy. NCC	} Dr. Alagappa Chettiar College, Karaikudi; Govt. College, Pudukkottai. M.D.T.M. College, Tirunelveli; St. Xaviers' College, Palayamkottai; St. John's College, Palayamkottai.
Tirunelveli Ind. Coy. NCC	

10. The first Annual Camp of 1 Madras Girls Troop NCC consisting of 3 NCC Officers and 90 cadets was held at Ceylon Emigration Depot, Trichirapalli from 19 Sep. to 30 Sep. 55. The Air Squadrons of the NCC including 3 Madras Air Squadron NCC held their combined Annual Camp at Delhi from 23 Oct. to 5 Nov. 55. The Annual Camps of other Senior Division Units were held in Dec. 1955.

11. The NCC Day was celebrated in Madras on 4 Dec. 55 at Marina Grounds. The function was presided over by Lt. General K. S. Thimayya, G.O.C-in-C, Southern Command. Both boys and girls from the various units in the city participated in the function which included March Past, Mass Drill etc. The NCC Band was in attendance.

12. Reviewing the training for the whole year it should be recorded that there has been satisfactory all round progress. It is hoped that the organization will continue to maintain the progress in the next year.

APPENDIX G

Question Paper-Setters and Examiners for the Examinations of 1955.

Question Paper-Setters.

ENGLISH.

B.A. (Hons.) and M.A. Degree Examinations.

MEMBERS OF THE BOARD.

1. Prof. C. L. Wrenn, M.A. (*Chairman*).
2. Prof. Peter Alexander.
3. Prof. John Butt, M.A.

Matriculation, Intermediate, B.A. (Pass), B.A. (Hons.) Preliminary, B. Sc. (Pass and Hons.) Part I, B. Com. (Pass and Hons.) Part I and B.O.L. (Pass and Hons.) Part I Examinations.

MEMBERS OF THE BOARD.

1. Sri V. K. Ayappan Pillai, M.A. (*Chairman*).
2. Sri M. G. Bhatt, M.A., B.Sc. (Econ.) (Lond.).
3. Sri V. K. Gokak, M.A., B.A. (Oxon.).
4. Sri U. C. Nag, M.A., Ph.D.
5. Sri K. R. Srinivasa Ayyangar, M.A., D.Litt.

MATHEMATICS

B.A. (Hons.) and M.A. Degree Examinations.

MEMBERS OF THE BOARD.

1. Sri R. Vaidyanathaswami, M.A., D.Sc. (*Chairman*).
2. Sri D. P. Banerjee, M.A., D.Sc., F.S.S.
3. Sri S. Minakshisundaram, M.A., D.Sc.
4. Sri B. R. Seth, D.Sc.

**Matriculation, Intermediate, B.A. and B.Sc.
Degree Examinations**

MEMBERS OF THE BOARD.

1. Sri N. M. Shah, M.A (Cantab.) (*Chairman*).
2. Sri B. C. Das, M.A.
3. Sri G. R. Narayana Ayyar, M.A., L.T.
4. Sri Ram Behari, M.A., Ph.D., Sc.D., F.N.I.
5. Sri T. S. Venkataraman, M.A.

**QUESTION PAPER-SETTERS, NOT MEMBERS OF THE
BOARD.**

1. Sri K. Nagabhushanam, M.A., Fil Lic., D.Fil.
2. Sri T. K. Rajasekharan, M.A.
3. Sri C. V. Subbarama Ayyar, M.A.

STATISTICS

For all Examinations [(B.A. and B.Sc. (Pass and Hons.) Degree].

MEMBERS OF THE BOARD.

1. Sri U. Sivaraman Nair, M.A., Ph.D., F.A.Sc., F.N.I.
(*Chairman*).
2. Sri A. Bhattacharya, M.Sc.
3. Sri D. N. Lal, M.A., Ph. D.
4. Sri N. M. Bhatt, M.Sc., Ph.D. (Edin.), F.S.S. (Lond.).

PHYSICS

B.Sc. (Hons.) Degree Examination.

MEMBERS OF THE BOARD.

1. Sri S. Bhagavantam, D.Sc., F.A.Sc., F.N.I. (*Chairman*).
2. Sri S. B. Bondade, B.A., LL.B., B.Sc. (Hons) (Lond.).
3. Sri R. S. Krishnan, M.A., D.Sc., Ph.D. (Cantab.), F.A.Sc.,
F.N.I.

**Matriculation, Intermediate, B.A. and B.Sc. Degree
Examinations**

MEMBERS OF THE BOARD.

1. Sri B. Dasannacharyya, M.A., D. Phil., F. Inst. P. (*Chairman*).
2. Sri D. Bhagavanulu, M.A.

3. Sri T. B. Ninan, M.A.
4. Sri G. N. Ramachandran, M.Sc., Ph.D., D.Sc., A.I.I.Sc.
5. Sri N. Ram Lal, M.Sc., Ph.D. (Lond.)
6. Sri L. Sibaiya, D.Sc.

CHEMISTRY

B.Sc. (Hons.) Degree Examination.

MEMBERS OF THE BOARD.

1. Sri R. D. Desai, B.A., M.Sc., D.Sc. (Lond.), F.I.I.Sc., F.N.I., F.R.I.C., F.A.Sc. (*Chairman*).
2. Sri A. C. Chatterji, D.Sc., Dr. Ing.
3. Sri R. C. Ray, D.Sc. (Lond.), F.I.I.Sc., F.R.I.C., F.N.I.

Intermediate, B.A. and B.Sc. Degree Examinations.

MEMBERS OF THE BOARD.

1. Sri T. R. Seshadri, M.A., Ph.D., F.R.I.C., F.A.Sc., F.N.I. (*Chairman*).
2. Sri M. R. Aswathanarayana Rao, D.Sc.
3. Sri G. Gopala Rao, D.Sc.
4. Sri Bawakartar Singh, M.A., D.Sc., F.I.C.

BOTANY

B.Sc. and B.Sc. (Hons.) Degree Examinations. (Main Papers)

MEMBERS OF THE BOARD.

1. Sri A. Abraham, M.A., M.Sc., Ph.D. (*Chairman*).
2. Sri T. C. N. Singh, D.Sc.
3. Sri K. V. Srinath, Ph.D.

Intermediate and B.A. Degree Examinations (including Subsidiary Papers for all Examinations)

MEMBERS OF THE BOARD.

1. Sri K. G. Krishna Rao, M.A. (*Chairman*).
2. Sri J. Venkateswarlu, D.Sc., Ph.D. (Cantab.)
3. Sri T. S. Sadasivan, M.Sc., Ph.D., D.Sc.

UNIVERSITY OF MADRAS

ZOOLOGY

B.Sc. (Pass and Hons.) Degree Examinations.

(Main Papers)

MEMBERS OF THE BOARD.

1. Sri S. G. Manavala Ramanujam, M.A., Ph.D. (Lond.), D.I.C., F.R.M.S. (*Chairman*).
2. Sri N. K. Panikkar, M.A., D.Sc., F.A.Sc., F.N.I.
3. Sri A. B. Misra, D.Sc., D.Phil., F.Z.S., F.R.E.S.

B.A. Degree and Intermediate Examinations
(including Subsidiary Papers for all Examinations and
B.Sc. Physiology Subsidiary)

MEMBERS OF THE BOARD.

1. Sri H. K. Mukherjee, D.Sc., F.N.I. (*Chairman*).
2. Sri K. Bhaskaran Nair, D.Sc., F.Z.S.I.
3. Sri H. R. Mehra, M.Sc., Ph.D. (Cantab.), F.N.I., F.N.A.Sc.

QUESTION PAPER-SETTER, NOT MEMBER OF THE BOARD

Dr. C. Vareed, M.B., B.S., M.Sc.

GEOLOGY

B.Sc. (Pass) and B.Sc. (Hons.) Degree Examinations.

MEMBERS OF THE BOARD.

1. Sri Raj Nath, M.Sc., D.I.C., Ph.D. (Lond.), F.N.I., F.N.A.Sc. F.G.M.S. (*Chairman*).
2. Sri G. W. Chiplonkar, D.Sc.
3. Sri Paul G. Dowie, M.A., M.Sc., F.G.S.
4. Sri K. Rajagopalaswami, M.A.

HOME SCIENCE

B.Sc. Degree Examination**(including Household Art for the Intermediate Examination)**

MEMBERS OF THE BOARD.

- *1. Miss A. K. Joshua, B.Sc. (Hons.) (Lond.) (*Chairman*).
2. Miss S. Samuel, B.A. (Hons.).
3. Mrs. Devaki Damodaran, M.A., L.T.

- *4. Dr. Isaac Joseph, L.M. & S., B.S.Sc.
 - 5. Dr. M. K. Jacob, M.B. B.S., D.P.H.
 - 6. Dr. (Miss) D. M. Jefferson, M.D., M.Sc.
 - 7. Mrs. Kamala Sohoni, M.Sc., Ph.D.
 - *8. Miss Florence Theophilus, M.Sc., M.S. (Vassar College, U.S.A.)
 - 9. Miss O. S. Edwards, M.A., Ph.D., Ed.D.
 - *10. Mrs. T. Vasundhara, M.A., B.Sc. (Hons.) (Lond.), L.T.
 - 11. Mrs. Teresa Joseph Cleetus, M.A., B.Sc. (Hons.) (Lond.).
 - *12. Sri C. W. B. Zacharias, M.A., L.T.
- (*Members of the Board to pass the question papers.)

PHILOSOPHY

B.A. (Hons.) and M.A. Degree Examinations.

MEMBERS OF THE BOARD.

- 1. Sri B. L. Atreya, M.A., D.Litt. (*Chairman*).
- 2. Sri N. G. Damle, M.A.
- 3. Sri P. Nagaraja Rao, M.A., D.Litt.

PHILOSOPHY AND LOGIC

B.A. Degree and Intermediate Examinations.

MEMBERS OF THE BOARD.

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- 2. Sri S. K. Maitra, M.A., Ph.D.
- 3. Sri T. R. V. Murthi, M.A., D.Litt.

PSYCHOLOGY

B.A., B.A. (Hons.) and Intermediate Examinations.

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- 2. Sri B. Kuppaswami, M.A., D.Litt.
- 3. Sri S. C. Mitra, M.A., Ph.D., F.N.I.
- 4. Sri P. Srinivasulu Naidu, M.A.

HISTORY AND POLITICS

(including Islamic History and Culture)

B.A., B.A. (Hons.) and M.A. Degree Examinations

MEMBERS OF THE BOARD.

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- 2. Sri D. N. Banerjee, M.A.
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4. Sri K. P. Pillay, B.A. (Oxon.)
5. Sri S. A. Saletore, M.A., Ph.D., D.Phil.
6. Sri N. Srinivasan, M.A., B.Sc. (Econ.)
- *7. Sri H. K. Sherwani, M.A. (Oxon.)
- *8. Sri Mohammad Habib, B.A. (Oxon.), *Barrister-at-Law*.
*For Islamic History and Culture only.

Matriculation and Intermediate Examinations.

MEMBERS OF THE BOARD

1. Sri V. M. Ittyerah, M.A., B.Litt. (Oxon.) (*Chairman*).
2. Sri V. Ramanathan, M.A., L.T.
3. Sri Y. Venkataramana, M.A., B.Ed.
- *4. Sri A. N. Md. Khalidi.
*For Islamic History only.

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B.A., B.A. (Hons.) and M.A. Degree Examinations

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GEOGRAPHY

B.A. (Hons.), M.A. and B.Sc. (Hons.) Degree Examinations.

MEMBERS OF THE BOARD

1. Sri S. Muzafer Ali, M.A., M.Sc., Ph.D. (Lond.) (*Chairman*)
2. Sri S. P. Chatterjee, M.Sc., Ph.D. (Lond.), D.Litt. (Paris).
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COMMERCE

B.Com. (Hons.) Degree Examination.

MEMBERS OF THE BOARD

1. Sri S. K. Muranjan, M.A., B.Sc., D.Sc. (Econ.) (*Chairman*).
2. Sri E. R. Dhongde, B.A., B.Com. (Lond.).
3. Sri A. V. Deshpande, F.S.A.A., F.C.A.
4. Sri R. H. Pandia, B.A., LL.B., (*Barrister-at-Law*).
5. Sri A. K. S. Ayyar, B.Com., G.D.A., F.S.A.A., F.C.A.,
F.I.C.W.A.
6. Sri K. C. Sarkar, M.A., Ph.D.
7. Sri B. S. Baindoor, B.Com.
8. Sri P. D. Swaminatha Mudaliar, B.A.
9. Sri C. Rama Rao Sahib, B.A., B.L.

B. Com. (Pass) Degree Examination.

PART III.

Also for Precise-Writing and Business Correspondence for B.Com. (Hons.) Part I and for Intermediate Examination—Elements of Commerce & Accountancy and Economic History of England & Economic Geography.)

MEMBERS OF THE BOARD

1. Sri S. R. Mandre, M.A., B.Com., F.S.A.A., F.C.A. (*Chairman*).
2. Sri G. M. Dandekar, B.A., F.S.A.A., F.C.A.
3. Sri B. Raghavendra Rao, M.A. (Com.)
4. Sri G. G. Gadgil, M.A.
5. Sri V. Krishnan, B.A. (Hons.), Ph.D.
6. Sri B. R. Subba Rao, M.A., Dip. Com.
7. Sri M. M. Ismail, M.A., B.L.

**LANGUAGES OTHER THAN ENGLISH
SANSKRIT**

B.A. (Part III), B.A. (Hons.) and M.A. Degree Examinations

MEMBERS OF THE BOARD

1. Sri C. S. Venkateswaran, M.A., Ph.D. (*Chairman*).
2. Sri N. Gopala Pillai, M.A.
3. Sri Y. Mahalinga Sastri, M.A., B.L.
4. Sri P. S. Subramanya Sastri, M.A., Ph.D., L.T.

**Matriculation, Intermediate, B.A. (Part II) and B.Sc. (Part I)
Examinations**

MEMBERS OF THE BOARD

1. Sri T. Chandrasekharan, M.A., L.T. (*Chairman*).
2. Sri Aryendra Sarma, M.A., Ph.D.
3. Sri P. Thirugnanasambandham Pillai, M.A.

ORIENTAL TITLE EXAMINATIONS

SIROMANI

1. Mimamsa Branch

(To set also Paper—Preliminary General II—Common to all Branches)

MEMBERS OF THE BOARD

1. Sri A. C. Panchapagesa Sastri (*Chairman*).
2. Sri V. S. Ramachandra Sastri.
3. Sri P. R. Sivasubramania Sastri.

2. Vedanta and Nyaya Branches

(To set also Paper—Preliminary General I—Common to all Branches)

MEMBERS OF THE BOARD

1. Sri K. A. Lakshmana Sastri (*Chairman*).
2. Sri T. S. Krishnacharya.

3. Sri S. Ramasubba Sastri.
4. Sri Polagam Sundaresa Sastrigal.
5. Sri Pandita Ratnam D. Vasudevachar.
6. Sri N. Vijayendrachariar.

3. Vyakarana and Sahitya Branches

(To set also Paper—Preliminary General III—Common to all Branches)

MEMBERS OF THE BOARD

1. Sri N. N. Harihara Sastri, M.A. (*Chairman*).
2. Sri G. Hanumat Sastri.
3. Sri K. Ramanujacharya.
4. Mahamahopadhyaya Vyakarnam S. Setumadhayaçharya.
5. Sri K. A. Sivaramakrishna Sastri.
6. Sri N. Srinivasa Sarma.

4. Ayurveda and Jyotisha Branches

MEMBERS OF THE BOARD

1. T. S. Kuppanna Sastri, M.A., L.T. (*Chairman*).
2. Sri Vaidyaratna M. Doraiswamy Ayyangar.
3. Sri A. Rama Varma.
4. Sri K. Ramakrishna Sastri.

General Part for Siromani Final and Vidvan (a) Final

1. Sri U. Venkatakrishna Rao, M.A.
2. Sri T. S. Balasubrahmanya Ayyar, M.A., L.T.

ARABIC, PERSIAN AND URDU

M.A. and B.O.L. (Hons.) Degree Examinations.

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THE BOARD**

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3. Sri S. Mohammad Haneef.

**Afzal-ul-Ulama and Entrance Test to
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For all Examinations except Honours and Oriental Title Examinations

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M.A. and B.O.L. (Hons.) Degree Examinations

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Title Examinations.**

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MEMBERS OF THE BOARD

1. Sri C. Janakiramayya, M.A., P.O.L. (*Chairman*).
2. Sri K. Bangaruraju.
3. Sri T. Venkataratnam, M.A., L.T.

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M.A. Degree Examination

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MEMBERS OF THE BOARD

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2. Sri T. K. Devasia, M.A.
3. Sri G. Sankara Kurup.

For all Examinations except Honours and Oriental Title Examinations

MEMBERS OF THE BOARD

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2. Sri N. Kunjukrishna Pillai, M.A.
3. Sri P. V. Ulahannan, M.A.

Oriental Title (Vidvan) Examinations

MEMBERS OF THE BOARD

1. Sri T. M. Theyunni Nair, B.O.L., M.A. (*Chairman*).
2. Sri P. Krishnan Nair.
3. Sri N. D. Krishnan Unni.

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For all Examinations except Honours and Oriental Title Examinations.

MEMBERS OF THE BOARD

1. Sri S. Shankar Raju Naidu, M.A. (*Chairman*).
2. Sri G. Sachidanandan, M.A., B.Sc.
3. Sri B. Venkata Subbiah, M.A.

Oriental Title (Vidvan) Examinations

MEMBERS OF THE BOARD

1. Sri Lalitha Prasad Sukul, M.A. (*Chairman*).
2. Sri S. Shankar Raju Naidu, M.A.

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3. Mrs. Marcella Hardy, B.A. (Hons.) (Oxon.)
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(*Chairman*).
2. Sri R. P. Arthur, B.E., M.S., A.S.M.E.
3. Sri K. Channabasaviah, B.E., M.S. (Wis.), A.M.I.E.

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MEMBERS OF THE BOARD

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2. Sri Musiri Subrahmania Ayyar.
3. Sri Udayavarma Rajah.
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MEMBERS OF THE BOARD

1. Sri C. W. B. Zacharias, M.A., L.T. (*Chairman*).
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1. Sri K. Kanakasabapathy Pillai, M.A., D.Phil. (*Chairman*).
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DIPLOMA IN LIBRARIANSHIP

MEMBERS OF THE BOARD

1. Sri R. Janardhanam Naidu, B.A., L.T., D.E., Dip. L.S., F.L.A. (*Chairman*).
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7. Sri K. Kanakasabapathi Pillai, M.A., L.T., D.Litt., D.Phil.
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10. Sri V. P. Narayanan Nambiar, M.A.
11. Sri A. Ranganadhan.
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4. Sri T. S. Ramakrishnan, M.A., F.A.Sc.
5. Sri G. S. Siddappa, M.A., Ph.D., A.R.I.C.

Note :—There was no candidate for the Diploma in Horticulture Examination in 1955.

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1. The Rev. L. D. Murphy, S.J., M.A. (*Chairman without paper*)
2. The Rev. Mother M. Eansivida, F.M.M.
3. Sri K. Ramadass, B.A. (Hons.)
4. Dr. Kumari M. Thangam, M.D.

PROFESSIONAL EXAMINATIONS**TEACHING****M.Ed. Degree Examination**

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5. Miss M. Varughese, M.A. (Lond.), T.D.

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NOT MEMBERS OF THE BOARD

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3. Sri B. Bhavani Rao, B.A., L.T.
4. Mrs. C. E. Devanandan, M.A., L.T.
5. Miss E. T. Rajeswari, M.A., L.T.
6. Mrs. Rajabai David, B.A., L.T., M.Ed.
7. Sri P. Sambamurti, B.A., B.L.

LAW

F. L. Examination

MEMBERS OF THE BOARD

1. Sri G. C. Venkatasubba Rao, B.Sc., M.L. (*Chairman*).
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3. Sri G. Balaparameswari Rao, B.A., B.L.
4. Sri V. Balasubrahmanyam, B.Sc., M.L.
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MEMBERS OF THE BOARD

1. Sri S. Venkataraman, B.A., M.L. (*Chairman*).
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3. Sri T. P. Gopalakrishnan, B.A., M.L.
4. Sri K. Narayanan, B.A., B.L.
5. Sri M. Ramanujachari, B.A., B.L.
6. Sri K. Sreedharan Pandalai, B.A., M.L., LL.M.
7. Sri K. V. Srinivasa Ayyer, B.A., B.L.

MEDICAL EXAMINATIONS

First M.B. & B.S. and Second M.B. & B.S. Examinations

1. Dr. Y. Appajee, B.A., M.B., B.S., M.Sc. (Lond.)
2. Dr. B. M. Desai, M.S., F.C.P.S.
3. Dr. K. C. Battliwalla, M.B., B.S., Ph.D.

4. Dr. M. L. Chakrabarty, M.Sc., M.D., Ph.D. (Lond.)
5. Dr. (Mrs.) Ranita Aiman, M.B., B.S., M.R.C.S. (Eng.),
D.R.C.O.G., D.M.C.W.
6. Dr. M. Yousufuddin Ansari, M.B., B.S., L.R.C.P. (Eng.),
M.R.C.S., Ph.D. (Lond.).
7. Dr. Y. K. Subramanian, M.B., B.S., D.P.H.
8. Dr. S. E. D. Masilamani, M.B., B.S., B.S.Sc., D.P.H. (Lond.).
9. Dr. R. G. Dhayagude, M.D.
10. Dr. P. G. Gollekeri, M.D.

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1. Dr. R. G. Dhayagude, M.D. (*Chairman*).
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4. Dr. Mrs. Ranita Aiman, M.B., B.S., M.R.C.S. (Eng.),
D.R.C.O.G., D.M.C.W.
5. Dr. Y. K. Subramanian, M.B., B.S., D.P.H.

Final M.B., B.S. Degree Examination

1. Dr. D. Jagannadha Reddy, M.D.
2. Dr. I. Bhooshana Rao, M.D.
3. Dr. S. N. Gantayat, M.B. & B.S., D.O. (Oxon.)
4. Dr. B. K. Das Gupta, M.B., D.O., M.S. (Lond.), F.R.C.S.
(Edin.), F.I.C.S.
5. Dr. B. B. Yodh, M.R.C.P. (Lond.), D.T.M. & H. (Eng.)
6. Dr. A. B. Mukherjee, M.D., M.R.C.P.
7. Dr. G. S. Das Mahapatra, M.S., F.R.C.S. (Edin.)
8. Dr. P. Chatterjee, M.B., F.R.C.S.
9. Dr. (Sry.) J. Dei, M.B., B.S., M.R.C.O.G.
10. Dr. M. N. Sarkar, B.A., M.B., B.S., F.R.C.S., F.R.C.O.G.

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5. Dr. M. N. Sarkar, B.A., M.B., B.S., F.R.C.S., F.R.C.O.G.

M.D. Degree Examination*(For setting and valuation).*1. *Branch I—(Medicine).*

1. Dr. A. B. Mukherjee, M.D., M.R.C.P. (*Convener*).
2. Dr. J. C. Banerjee, M.B., M.R.C.P. (Lond.).
3. Dr. P. N. Laha, M.D., M.R.C.P. (Lond. and Edin.), D.C.H. (Eng.).
4. Dr. N. E. Lilauwala, M.R.C.P., F.R.C.P.

2. *Branch II—Midwifery (Also for setting for D.G.O.)*

1. Dr. Subodh Mitra, M.B., Dr. Med. (Berlin), F.R.C.S. (Ed.), F.R.C.O.G., F.A.C.S. (*Convener*).
2. Dr. A. C. Bhoumik, M.B., M.R.C.O.G.
3. Dr. (Miss) A. D. Engineer, M.D., M.R.C.O.G. (Lond.), F.R.C.S. (E.).
4. Dr. R. G. Patel, M.D., D.G.O., M.R.C.O.G., F.R.C.S.

3. *Branch III—(Pathology and Bacteriology).*

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3. Dr. V. S. Mangalik, M.D.
4. Dr. R. K. Goyal, D.Sc., Ph.D., M.R.C.P., F.R.S.E.

M.S. Degree Examination*(For setting and valuation.)*1. *Branch I—(General Surgery).*

1. Dr. A. K. Basu, M.S., F.R.C.S. (Eng.), F.A.C.S., F.I.C.S. (*Convener*).
2. Dr. S. K. Menon, M.B., B.S., F.R.C.S.
3. Dr. B. N. Balakrishna Rao, B.Sc., M.B., B.S., F.A.Sc., F.I.C.S., F.R.C.S. (Eng.).
4. Dr. A. K. Saha, M.B., F.R.C.S. (Edin. and Eng.), M.Ch. (Orth.)

2. *Branch II—(Ophthalmology) (Also for setting for D.O.)*

1. Dr. K. N. Mathur, M.B., B.S., D.O.M.S. (Lond.), M.S. (*Convener*).
2. Dr. S. P. Gupta, M.B., B.S., F.R.C.S. (Ed.), D.O.M.S. (Lond.)

3. *Branch III—(Oto-Rhino-Laryngology) (Also for setting D.L.O.).*

1. Dr. R. A. F. Cooper, M.S. (*Convener*).
2. Dr. L. H. Hiranandani, F.R.C.S. (Eng.), F.C.P.S., D.L.O. (Lond.).

First B.D.S. Examination

1. Dr. D. V. Subba Reddy, M.B., B.S., M.Sc. (*Chairman*).
2. Dr. K. Govinda Menon, B.A., M.B., B.S., M.Sc.
3. Dr. M. G. Rao, L.D.Sc., P.G.R.P., F.A.I.D.

Second B.D.S. Examination

1. Dr. V. M. Desai, D.D.S., F.D.S., R.C.S. (Eng.), R.C.S. (Edin.), F.I.C.D., F.A.I.D. (*Chairman*).
2. Dr. H. M. Dholakia, L.D.S., L.D.Sc., R.C.S. (Eng.).
3. Dr. V. M. Kher, L.D.Sc., D.D.S., L.D.S., R.C.S. (Eng.).
4. Dr. L. Monteiro, M.D.
5. Dr. U. K. Sheth, B.Sc., M.D., F.C.P.S.

B. Pharm. Preliminary Examination

MEMBERS OF THE BOARD

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2. Dr. C. Bashyakarla Rao, M.Sc., L.T., Ph.D. (Lond.)
3. Dr. C. Vareed, M.B., B.S., M.Sc.

B. Pharm. Final Examination

PART I.

1. Dr. K. P. Sarathy, M.B., B.S., M.Sc. (*Chairman*).
2. Sri T. K. Minakshisundaram, M.A., L.T.

B. Pharm. Final Examination

PART II.

MEMBERS OF THE BOARD

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NURSING

Intermediate Examination in Science in Nursing

MEMBERS OF THE BOARD

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6. Dr. Miss L. Chacko, M.B., B.S., M.Sc., D.Phil. (Oxon.)
7. Dr. Miss D. M. Jefferson, M.D., M.Sc.
8. Mrs. P. A. Bhanumati, M.A.
9. Miss Helen S. Witter, B.Sc.
10. Dr. (Miss) E. D. Mason, M.A., Ph.D., D.Sc.

PART III.

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2. Miss Margaret W. Simpson.

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PART II

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7. Miss Soma Perera.
8. Sry. A. Alamelu Ammal.

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Lt.-Col. S. Paul, B.E. (*Chairman* of the Board only to pass question papers).

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2. Sri C. Gopalakrishnan, B.Sc., B.E., A.M.I.E.
3. Sri K. Padmanabha Pillai, B.E., C.E. (Hons.), M.I.E. (Ind.).
4. Sri A. Lakshmanaswami, B.E., C.E., A.M.I.E.
5. Sri N. Sanyal, M.S., A.M.I.C.E., A.M.I.E.

MECHANICAL BRANCH

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A.M.I., Mech. E.
7. Sri R. Natesan, B.E., A.M.I.E.
8. Sri B. V. Patankar, B.E., A.M.I.E., Mem. A.S.M.E.
9. Sri C. Rajaram, B.A., B.E., A.M.I.E.

ELECTRICAL BRANCH

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A.M.I.E.E., A.M.I.E.
11. Sri M. K. Dalal, B.Sc. (Lond.), A.M.I.E.E., A.M.I.E. (Assoc.),
A.I.E.E.
12. Sri S. P. Chakravarti, M.Sc., M.I.E.E., S.M.I.R.E.
13. Sri P. C. Dutt, B.Sc. (Eng.), M.I.E. (Ind.).

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11. Dr. C. Mohan Rangam, M.B.B.S., M.D.
12. Dr. Y. S. Narayana Rao, M.B.B.S., D.T.M. (Cal.), D.B. (Lond.)
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Final M.B. & B.S. Degree Examination.

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5. Dr. M. Q. H. Siddiki, M.R.C.S. (Lond.), L.R.C.P. (Lond.)
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35. Dr. (Miss) P. T. Madhavi Amma, M.D., M.R.C.P. (Lond.)

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M.D. Degree Examination

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(To conduct the Practical, Clinical and Oral only)

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B.Sc. Degree Examination in Nursing

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(TO CONDUCT EXAMINATIONS)

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8. Sri E. Guruswami, B.E. (For September only)
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4. Sri S. Subramanian, B.E.

5. Sri K. V. Thadaney, B.E., A.M.I.E.
6. Sri S. Ananthakrishnan, B.A., B.E., A.M.I.E.
7. Sri S. Murugesan, B.E., Assoc. Mem. A.S.M.E.
8. Sri G. Ramakrishnan, B.E., M.Sc.
9. Sri Paul K. Charlu, B.E., M.Sc. (Calif.)
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11. Sri S. Srinivasan, B.E., M.Sc., M.S.E.E.
12. Sri A. K. Ghose, M.Sc., M.I.R.E.
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7. Sri Mir Shabir Hussain, M.A., B.T.
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9. Sri C. Rajaram, B.A., B.E.
10. Sri K. Raghavendran, B.Sc. (Hons.)
11. Sri K. B. Subbayya, B.E.

AGRICULTURE

B.Sc. (Ag.) Degree Examination

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4. Sri C. S. Balasubramaniam, B.A.
5. Sri N. Sankaranarayana Reddy, B.E.

Second Examination.

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3. Sri T. Natarajan, B.A., B.Sc. (Ag.)
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6. Sri N. Raghava Rao, B.Sc. (Ag.)
7. Sri J. D. David, G.M.V.C., P.G. (Edin.)

Final Examination

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(Edin.)
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B.V.Sc. Intermediate Examination.

Part II (New Regulations)

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B.Sc. (Tech.) Part I Examination.

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4. Sri P. Dorai Babu, B.Sc. (Hons.)
5. Sri R. Natesan, B.E.
6. Sri K. Sukumaran, B.E., Ph.D.
7. Sri S. M. Shah, B.Sc., B.Sc. (Tech.), Ph.D. (Lond.)
8. Capt. P. S. Chowdary, Dip. in Leather Tech. (Lond.)

CHEMICAL ENGINEERING.

B.Sc. (Tech.) Part II Examination.

MEMBERS OF THE BOARD :

1. Sri G. S. Laddha, B.Sc., B.Sc. (Tech.), M.S., Ch.E., Ph.D. (Purdue) (*Chairman*)
2. Sri C. W. B. Zacharias, M.A., L.T.
3. Sri M. V. Joshi, B.E., B.Sc. (Tech.) (Manch.)
4. Sri P. S. Mene, B.Sc. (Hons.) (Lond.), Ph.D. (Lond.), D.I.C., M.I.I. Chem.E.
5. Sri T. N. Mehta, B.A., B.Sc., D.I.C., Ph.D. (Lond.)
6. Sri B. D. Tilak, B.Sc., B.Sc. (Tech.), Ph.D.; D.Phil. (Oxon.)

B.Sc. (Tech.) Degree Examination.**TEXTILE TECHNOLOGY****MEMBERS OF THE BOARD :**

1. Sri G. M. Nabar, B.A., M.Sc., M.Sc. (Tech.), Ph.D., F.R.I.C.,
F.T.I. (*Chairman*)
2. Sri R. G. Chandorkar, B.Sc. (Bom.), L.T.M., M.Sc. (Tech.)
(*Manch.*)
3. Sri C. E. Krishnamurti, B.A., T.D.
4. Sri B. C. Mohanty, M.Sc. (Leeds).
5. Sri D. Subbarayudu, L.T.M. (Hons.)

B.Sc. (Tech.) Degree Examination**LEATHER TECHNOLOGY PART II****MEMBERS OF THE BOARD :**

1. Sri B. M. Das, M.A., M.Sc. (Leeds). (*Chairman*)
 2. Capt. P. S. Chowdary, Dip. in Leath. Tech. (Lond.)
 3. Sri Y. Nayudamma, B.Sc., M.S., Ph.D.
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APPENDIX H.

Tabular Statement of Hostel Return from Constituent and Affiliated Colleges,
1955-56.

No.	Name of College.	Total number of students in the college for 1955-56.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
Arts and Science Colleges							
<i>Constituent Colleges</i>							
1	Agurchand Mannul Jain College, Madras.	635	556	62	...	7	..
2	Government Arts College, Madras ..	1,312	1,024	230	54	4	..
3	Loyola College, Madras ..	1,837	1,065	755	17	..	..
4	Pachaiyappa's College, Madras ..	2,043	1,346	553	121	23	..
5	Presidency College, Madras ..	1,422	982	83	331	26	..
6	Sir Theagaraya College, Madras ..	778	647	117	8	6	..

7	Vivekananda College, Madras	1,536	1,244	175	85	32	..
8	Ethiraj College for Women, Madras	587	509	75	..	..	3
9	Queen Mary's College, Madras	748	535	213	..	..	..
10	Stella Maris College, Madras	727	585	142	..	..	..
11	Women's Christian College, Madras	360	155	204	1	..	..
12	The New College, Madras	590	533	50	4	3	..
13	South Indian Educational Trust Women's College, Madras:	110	93	17	..	..	..
<i>Affiliated First Grade Colleges</i>							
14	Government Arts College, Coimbatore.	968	792	90	59	27	..
15	St. Albert's College, Ernakulam	957	818	130	..	..	9
16	St. Tereza's College, Ettakulam	499	247	187	65	..	..
17	Farook College, Feroke	656	152	244	96	164	..
18	Alagappa College, Karaikudi	1,203	477	527	..	199	..
19	Guruvayurappan College, Kozhikode.	678	531	146	1	..	..
20	Providence Women's College, Kozhikode	207	112	95	..	..	..

Tabular Statement of Hostel Return from Constituent and Affiliated Colleges, 1955-56—(contd.)

No.	Name of College.	Total number of students in the college for 1955-56.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
21	Government College, Kumbakonam ..	1,028	887	105	36	..	..
22	The American College, Madurai ..	1,115	612	503	..	..	..
23	Madura College, Madurai ..	1,371	973	398	..	..	..
24	Lady Doak College, Madurai ..	327	145	182	..	..	..
25	Thiagarajar College, Madurai ..	697	310	254	123	10	..
26	Government Arts College, Mangalore.	765	530	36	129	3	67
27	St. Aloysius' College, Mangalore ..	1,124	668	306	120	30	..
28	St. Agnes College, Mangalore ..	352	238	107	7	..	..
29	Government College, Mercara ..	327	188	101	23	10	5
30	Sarah Tucker College, Palayamkottai.	235	105	130	..	..	..
31	St. John's College, Palayamkottai ..	714	282	395	..	37	..

32	St. Xavier's College, Palayamkottai ..	950	346	589	15	..	..
33	Government Victoria College, Palghat.	1,557	930	460	7	160	..
34	Raja's College, Pudukottai ..	542	246	89	..	..	207
35	Salem Municipal College, Salem ..	951	868	30	53	..	..
36	Beschi College, Shembaganur ..	19	..	19	..	..	..
37	Rajah Doraisingam Memorial College, Sivaganga.	519	175	239	..	..	105
38	Madras Christian College, Tambarm..	1,258	512	635	12	99	..
39	Government Brennen College, Tellicherry.	585	516	63	6	..	..
40	Sacred Heart College, Thevara ..	1,162	565	597	..	..	..
41	Holy Cross College, Tiruchirapalli ..	566	242	324	..	..	..
42	Jamal Mohamed College, Tiruchirapalli.	1,135	809	326	..	..	..
43	National College, Tiruchirapalli ..	1,211	749	244	48	170	..
44	St. Joseph's College, Tiruchirapalli ..	1,815	714	1,073	23	5	..
45	The M. D. T. Hindu College, Tirunelveli.	785	596	..	56	133	..

Tabular Statement of Hostel Return from Constituent and Affiliated Colleges, 1955-56—(contd.)

No.	Name of College.	Total number of students in the college for 1955-56.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
46	Sacred Heart College, Tirupattur ..	195	78	62	..	55	..
47	Sree Kerala Varma College, Trichur ..	1,028	657	148	..	223	..
48	St. Mary's College, Trichur ..	649	400	200	49	..	..
49	St. Thomas' College, Trichur ..	1,035	817	200	8	10	..
50	St. Mary's College, Tuticorin ..	170	84	86	..	..	..
51	Sri G. V. G. Visalakshi College for Women, Udumalpet.	120	15	104	1	..	..
52	Mahatma Gandhi Memorial College, Udipi.	573	439	26	21	19	68
53	V. O. Chidambaram College, Tuticorin	724	524	176	4	20	..
54	Islamiyah College, Vaniyambadi ..	454	272	166	..	16	..
55	V. H. N. Senthikumara Nadar College, Virudhunagar.	876	250	270	..	200	156

56	Khadir Mohideen College, Adiram-pattinam.	109	36	73	..	..	..
<i>Affiliated Second Grade Colleges</i>							
57	P. S. G. Arts College, Peelamedu (Coimbatore).	608	410	183	15	..	..
58	Nirmala College for Women, Coimbatore.	256	221	35	..	..	..
59	Mahajana College, Erode	343	204	61	13	..	65
60	Little Flower College, Mamiyoor, Guruvayoor.	72	57	15	..	..	..
61	Pachaiyappa's College, Kancheepuram.	464	329	135	..	..	..
62	Alagappa College for Women, Karai-kudi.	59	43	16	..	..	..
63	Auxilium College, Katpadi	120	55	65	..	..	..
64	Malabar Christian College, Kozhikode.	344	301	34	9	..	..
65	Fatima College, Madurai	209	142	67	..	..	..
66	Anbanathapuram Vahaira Charities College, Mayuram.	120	106	..	5	8	1
67	Government Arts College, Ootacamund.	120	64	49	..	7	..

Tabular Statement of Hostel Return from Constituent and Affiliated Colleges, 1955-56—(contd.)

No.	Name of College.	Total number of students in the college for 1955-56.	Students living with relatives or guardians.	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities	Students not accounted for under the preceding four heads
68	The Raja Serfoji College, Tanjore ..	120	115	..	1	4	..
69	Sitalakshmi-Ramaswami College, Tiruchirapalli.	152	95	57	..	..	..
70	Voorhees College, Vellore ..	500	390	74	8	28	..
Professional Colleges							
1	Madras Law College, Madras ..	1,302	..	..	..	386	916
2	Madras Medical College, Madras ..	1,204	805	399	..	..	..
3	Stanley Medical College, Madras ..	692	223	443	2	24	..
4	Madurai Medical College, Madurai ..	115	22	93	..	..	..
5	Christian Medical College, Vellore ..	252	..	252	..	..	..
6	College of Engineering, Guindy ..	699	167	532	..	..	..

7	Government College of Technology, Coimbatore.	290	37	251	..	..	2
8	P. S. G. & Son's Charities College of Technology, Coimbatore.	376	123	161	92	..	..
9	Alagappa Chettiar College of Engi- neering and Technology, Karaikudi.	350	67	283	..	..	..
10	Madras Veterinary College, Madras ..	350	117	222	7	1	3
11	Agricultural College, Coimbatore ..	287	29	258	..	..	..
12	Y. M. C. A. College of Physical Edu- cation, Saidapet, Madras.	338	..	338	..	..	..
13	Lady Willingdon Training College, Madras.	110	60	43	7	..	..
14	Meston Training College, Madras ..	79	13	62	4	..	..
15	St. Christopher's Training College, Madras.	60	12	48	..	..	..
16	Teachers' College, Saidapet, Madras.	179	75	100	4	..	..
17	Sri Ramakrishna Mission Vidyalaya Teachers' Training College, Peria- naickenpalayam.	73	..	73	..	..	..
18	Dr. Alagappa Chettiar Training Col- lege, Karaikudi.	100	20	41	6	33	..

Tabular Statement of Hostel Return from Constituent and Affiliated Colleges, 1955-56—(contd.)

No.	Name of College.	Total number of students in the college for 1955-56.	Students living with relatives or guardians	Students living in hostels attached to the college.	Students living in unattached hostels approved by the college authorities.	Students living in lodgings approved by the college authorities.	Students not accounted for under the preceding four heads.
19	Government Training College, Komarapalayam, (Salem District).	47	19	28	..	..	..
20	Government Training College, Kozhikode.	100	53	47	..	..	..
21	Government Training College, Mangalore.	65	38	16	11	..	..
22	St. Ann's Training College, Mangalore.	30	21	8	1	..	..
23	St. Xavier's Training College, Palayamkottai.	42	18	24	..	..	..
24	Government Training College, Pudukottai.	65	30	..	35
25	Vivekananda Training College, Tirupalathurai.	60	..	60

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26	V. O. Chidambaram Training College, Tuticorin.	60	15	22	..	23	..
27	Government Training College, Vellore.	35	23	..	12
Total ..		55,743	32,710	17,406	1,815	2,205	1,607

APPENDIX I

The Madras University Hostel Construction Co-operative Society, Ltd.

Report for the period ending 30th June 1955.

1. Registered under the Societies Registration Act VI of 1932 on the 17th September 1953, and inaugurated on the 27th November 1953 by His Excellency the Chancellor of the University and Governor of Madras, the Society actually started functioning from the 7th January 1954 in the University Buildings, Chepauk, Madras, when the first meeting of the General Body of members was held under the Chairmanship of the Vice-Chancellor.

2. *Membership*: The Membership of the Society is restricted to the University of Madras and its constituent and affiliated colleges. The Society was registered with 25 members. The membership grew to 29 during 1953-54, and one more was admitted to membership in 1954-55, making the total membership 30. A list of members showing the share capital subscribed is appended.

3. *Board of Directors* : At the first General Body meeting of the Society held on Thursday, the 7th January 1954, one member from the General Body from among the three representatives of the Senate, and 3 members from among the representatives of colleges, was conducted. The Syndicate of the University nominated the Rev. Dr. A. J. Boyd and Sri Alexander

Gnanamuttu as its nominees on the Board of Directors. The Board at present consists of:—

The Vice-Chancellor (President).	} <i>Ex-officio.</i>
The Director of Public Instruction, Madras.	
The Registrar, University of Madras (Secretary).	

The Rev. Dr. A. J. Boyd	} Nominated by the Syndicate.
Sri Alexander Gnanamuttu	

Sri A. Shanmugam Chetti—Elected by the General Body from among the 3 representatives of the Senate

Dr. Rm. Alagappa Chettiar	} Elected by the General Body from among the representatives of Colleges.
Sri T. Totadri Ayyangar	
Sri S. Ramaswami Konar	

4. *Meetings and Proceedings:* The General Body met on the 7th January 1954 for the first occasion and elected the Directors. The Board of Directors met twice during the year 1953-54, and 4 times during 1954-55. Apart from the transaction of normal business, the Board constituted a sub-committee consisting of the Vice-Chancellor, Sri S. Govindarajulu Naidu, the then Director of Public Instruction and Sri J. C. Rayan, the then Registrar of Co-operative Societies, to formulate proposals for the smooth and efficient working of the Society, with particular reference to the scrutiny of plans and estimates, scrutiny of title deeds for payment of grants and loans, and for the disbursement of Government grants to member-institutions for the construction of hostels through the Society, and also for the grant of certain exemptions from the payment of fee for registration etc. The sub-committee met once,

and met representatives of Government, as a result of which the Government of Madras were pleased to pass orders—

- (a) Exempting the members of the Society from the payment of fee for obtaining encumbrance certificates and for the registration of documents for obtaining loans from the Society ; and
- (b) accepting the scrutiny and report of the Society's Engineer on the plans and estimates in respect of plans for proposed hostels, for purposes of grants ;

accepting the scrutiny and approval of the Society's legal adviser, of the title deeds of the properties to be mortgaged to the Society for the grant of loans for construction of hostels, as sufficient for purposes of Government grant ;

agreeing to disburse the grants, if any, sanctioned for construction of hostels by member-institutions through the Society ; and

waiving the member-institutions of the Society from the operation of the Madras Aided Institutions (Prohibition of Transfer of Property Act of 1948), so as to enable the managements to mortgage the property for taking loans from the Society.

These orders of the Government enabled the Board to proceed with the applications for loans, and the Society to function smoothly.

5. *Loans*: The Senate of the Madras University was very pleased to accord sanction for the starting of the Society on general terms, and also sanctioned for payment of loans during 1954-55, a sum of Rs. 5 lakhs

from out of its funds. The Senate also during 1955-56, has sanctioned on the recommendation of the Syndicate, the grant of a further loan of Rs. 5 lakhs to the Society. The Board of Directors regrets that it has not been possible to avail itself of these two offers of loan from the University consequent on the various formalities that had to be gone through for the disbursement of loans. The loan offered is at an interest of 4 per cent, while the Board resolved in accordance with bye-law No. 45 to disburse the loans to members at $4\frac{1}{2}$ per cent per annum.

6. *Applications for loans:* At the meeting of the Board of Directors held on 6th April 1954, the Board considered the applications received for loans from member-institutions, and resolved that loans aggregating to Rs. 5.25 lakhs be granted to 6 institutions as the first order of priority. Further applications for loans were received and considered by the Society at its meeting on the 16th April 1955, and the Board resolved that seven more institutions be granted loans in the second order of priority, the total loans amounting to Rs. 5 lakhs. Six applications for loans were ranked in the third order of priority, for consideration as and when funds become available. A list of applications dealt with by the Board in the order of priority for loans is also appended. Only one loan for a sum of Rs. 1 lakh has actually been disbursed so far.

7. In view of the need for a qualified staff to deal with the Engineering and Legal aspects of the loan applications, the Society appointed Sri Ramaswamy Chetti, Engineer of the Corporation of Madras, and one of the member representatives, as Honorary Consulting Engineer of the Society at its meeting held on 6th April 1954. The Board reports with regret that Sri Ramaswamy Chetty passed away on the 28th May 1954. It records its deep appreciation of the valuable help and

advice he rendered to the Society during the short period he held office as Honorary Consulting Engineer. Sri N. A. Nityanandam, Retired Assistant Engineer, P.W.D., Madras, was later appointed full-time Engineer of the Society, and Sri C. N. S. Chengalvarayan, B.A., B.L., was appointed Legal Adviser of the Society. Sri Daniel Parthasarathi of the Registrar's Office was appointed part-time Assistant. The three continue to be associated with the Society. The Senate of the University had also sanctioned, when approving the establishment of the Society, that a grant not exceeding Rs. 10,000/- be placed at the disposal of the Society to meet the annual recurring charges on the establishment, as its contribution to the scheme of hostel construction by Colleges. A sum of Rs. 6,000/- was received from the University during the period of working under report.

8. The Board of Directors wishes to place on record its deep appreciation of the very sympathetic attitude that the Director of Public Instruction and the Government of Madras took to the scheme as formulated, which has made it possible for the Society to be established. It is equally grateful to Mr. J. C. Rayan and the officers of the Department for all the help and advice they gave in connection with its formation. The Society also wishes to take this opportunity of conveying its thanks to the Registrar of the University and the staff, who have discharged their duties thoroughly and well. The Board further places on record its profound sense of gratitude and appreciation of the initiative taken by the Vice-Chancellor of the University for bringing into being such a Society, the first of its kind in the whole of India.

List of Member-institutions of the Madras University Hostel Construction Co-operative Society, Ltd.

Sl. No.	Name of Member-institution	Amount of share capital subscribed and paid
		Rs.
1.	Loyola College, Madras	... 1,000
2.	Pachaiyappa's College, Madras	... 1,000
3.	Vivekananda College, Madras	... 20,000
4.	Agurchand Manmull Jain College, Madras	.. 1,000
5.	The New College, Madras	... 1,000
6.	Sir Theagaraya College, Madras	... 1,000
7.	Alagappa College, Karaikudi	... 25,000
8.	The Guruvayurappan College, Kozhikode	... 1,000
9.	The American College, Madurai	... 1,000
10.	Madura College, Madurai	... 10,000
11.	Thiagarajar College, Madurai	... 1,000
12.	St. John's College, Palayamkottai	... 1,000
13.	St. Xavier's College, Palayamkottai	... 1,000
14.	Jamal Mohamed College, Tiruchirapalli.	1,000
15.	National College, Tiruchirapalli	... 1,000
16.	St. Joseph's College, Tiruchirapalli	... 1,000
17.	The Madura Diraviyam Thayumanavar Hindu College, Tirunelveli	... 12,000
18.	Islamiah College, Vaniyambadi	... 1,000

Sl. No.	Name of Member-institution	Amount of share capital subscribed and paid
		Rs.
19.	Virudhunagar Hindu Nadars Senthikumara Nadar College, Virudhunagar.	1,000
20.	P. S. G. Arts College, Coimbatore	1,000
21.	Nirmala College for Women, Coimbatore	1,000
22.	Pachaiyappa's College, Kancheepuram.	14,000
23.	Providence Women's College, Kozhikode.	1,000
24.	P. S. G. & Sons' Charities College of Technology, Coimbatore	1,000
25.	Alagappa Chettiar College of Engineering and Technology, Karaikudi	1,000
26.	Dr. Alagappa Chettiar Training College, Karaikudi	1,000
27.	The Madras Christian College, Tambaram	1,000
28.	Ethiraj College for Women, Madras	25,000
29.	Sri Ramakrishna Mission Vidyalaya Training College, Perianaickenpalayam.	1,000
30.	Alagappa College for Women, Karaikudi	1,000

List of applications dealt with by the Board in the order of priority for loans.

First Priority.

1. Ethiraj College for Women, Madras.
2. Vivekananda College, Madras.
3. Alagappa College, Karaikudi.
4. The M. D. T. Hindu College, Tirunelveli.
5. Madura College, Madurai.
6. Pachaiyappa's College, Kancheepuram.

Second Priority.

1. Jamal Mohamed College, Tiruchirapalli.
2. Islamiah College, Vaniyambadi.
3. Providence Women's College, Kozhikode.
4. V. H. N. Senthikumara Nadar College.
Virudhunagar.
5. Thiagarajar College, Madurai.
6. St. John's College, Palayamkottai.
7. Alagappa College for Women, Karaikudi.

Third Priority.

1. National College, Tiruchirapalli.
2. P. S. G. Arts College, Coimbatore.
3. Dr. Alagappa Chettiar Training College,
Karaikudi.
4. Pachaiyappa's College, Madras.
5. P. S. G. & Sons' Charities College of
Technology, Coimbatore.
6. Sir Theagaraya College, Madras.