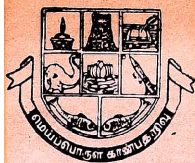


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Madurai Kamaraj University

TWENTIETH
ANNUAL REPORT



VOLUME I

1985

MADURAI KAMARAJ UNIVERSITY

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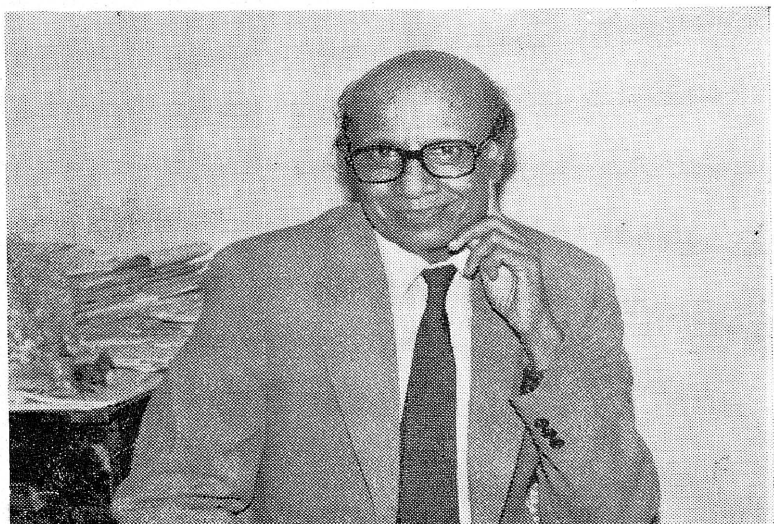
VOLUME I

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Dr. S. KRISHNASWAMY, Ph. D. (Madras) Ph. D., D. Sc., (Southampton)
VICE-CHANCELLOR

MADURAI KAMARAJ UNIVERSITY

TWENTIETH ANNUAL REPORT

CHAPTER I

GENERAL SURVEY

Introduction :

The University.

The Syndicate has great pleasure in submitting to the Senate the Annual Report of the University for the Calendar year 1985 as required by Section 21 of the Madurai Kamaraj University Act 1965. The Tamil version of the report is also presented.

The total number of affiliated and approved Institutions in the University during the year is 112, the same as last year's. This year two of the Colleges affiliated to Madurai Kamaraj University have now come under the jurisdiction of Alagappa University, Karaikudi. Two more colleges were granted affiliation in Post-graduate courses raising the total number of Post-graduate colleges to 55. There are 40 departments of teaching and research in the University and the total number of students in the affiliated and approved colleges, the University Departments, the Institute of Correspondence Course and Continuing Education, Open University System and Evening College is 1,46,594.

The Vice-Chancellor:

Prof. J. Ramachandran, M.A., A.M., (Chicago), continued as the Vice-Chancellor of the University till 20th August, 1985. Dr.S.Krishnaswamy, Ph.D., D.Sc (Southampton), Professor and Head of the School of Biological Sciences of this University succeeded Prof. J. Ramachandran as Vice-Chancellor from 4th October, 1985.

Prof. J. Ramachandran, attended the 13th World Conference of the International Council for Distance Education from 13th to 20th August 1985, held at Melbourne, Australia. He attended also the meeting of the Vice-Chancellors of the Universities held at Madras on 23rd July, 1985;

After assumption of office as Vice-Chancellor Dr. S. Krishnaswamy attended the meeting of the Vice-Chancellors of the Southern Region convened by the Vice-Chancellor of the University of Madras on the 11th and 12th October, 1985 to discuss at length the New Education Policy of the Govt. of India. He also participated in the Diamond Jubilee of the Association of Indian Universities held at Delhi in January 1986.

He presided over a Regional Conference of the United Nations Environmental Programme held at Bangkok from 10th to 15th November 1985, on formal tertiary level Environmental Education. He was a member of delegation to Commonwealth Conference on Inter-Institutional linkages held at Bangalore in February, 1986.

The Registrar:

Major P.P. Chinnadurai, continued as Registrar of the University during the year.

The Senate:

The Senate met thrice during the year 15th March, 28th March and 18th October., 1985. The first one was a special meeting held on 15th March 1985 in which it was decided to confer the Honorary Degree, of Doctor of Science on Dr. Eli A. Friedman, Professor of Medicine and Head of the Division of Nephrology, Downstate Medical Centre, Brooklyn, New York, U.S.A.

The Syndicate:

The Syndicate met 19 times during the year. The Syndicate in-circulation also considered and approved many routine items. The following members were nominated to the Syndicate by the Chancellor for a period of three years, with effect from 30th March, 1985.

Dr. B.R. Subrahmanyam, M.B.;B.S., and Thiru R.T. Gopalan.

The Academic Council:

The Academic Council met twice first on 7-3-1985 and later on 20-9-1985.

The Finance Committee:

The Finance Committee met on 23-2-1985.

The Syndicate Committee on Discipline, Welfare and Residence of Students :

The Committee met seven times during the year to conduct enquiry into and to decide on the cases of malpractice reported from the different examination centres. Cases of expulsion of students from the colleges were also dealt with,

The Boards of Studies:

The Boards of Studies numbering Forty eight were reconstituted with new members with effect from July, 1985 for a period of three years. Thirteen Boards of Studies met during the year and transacted business, the details of which are given below :

- | | |
|--------------------------|---------------------------------|
| 1. Engineering | 7. Medicine (PG) |
| 2. Chemistry (PG) | 8. Mathematics (PG) |
| 3. Business Admn. (P.G.) | 9. Pharmacy (UG & PG.) |
| 4. English (PG.) | 10. Malayalam, Telugu & Kannada |
| 5. Indian Medicine | 11. Tamil (PG) |
| 6. Home Science | 12. Physics (PG) |
| | 13. Zoology (Pass) |

Teaching :**New Courses :**

The following new courses were introduced during the year.

1. M. Sc. course in Bio-technology.
2. Master's course in Computer Applications.

New Colleges :

During the year one more self-financing Engineering college and a college of Pharmacy were granted affiliation as detailed below :

1. Rathinavel Subramanian Engineering College, Dindigul.
2. K. M. College of Pharmacy, Uthangudi.

M. Phil. Degree course :

Eleven teachers under FIP and 235 fresh students were admitted to the M. Phil course in various disciplines at the University departments. Further 105 teachers from affiliated colleges and 36 students were admitted to M. Phil degree course (Part-time) in Tamil, English, Chemistry, Commerce and Zoology at the affiliated colleges.

Library :

The University procured books and periodicals to the tune of Rs. 14.54 lakhs this year. The University Grants Commission also sanctioned a sum of Rs. 13,14,000 for books and Rs. 4,16,000 for equipments.

Seminars and Conferences :

Eight hundred and thirty two participants including members of the University faculty attended Seminars, Symposia and Workshops conducted by the various departments of the University.

Eighteen Workshops and Seminars at the State, National and International levels were organised by the various departments of the University with the assistance and collaboration of the UGC, DST, the Government of Tamilnadu and other agencies.

A brief summary of some of the Seminars and Conferences is given below :

The members of the Science Faculty celebrated the Niel's Bohr Centenary on 19th October, 1985 at 2.30 p. m. in the Raman Auditorium. Prof. S. Neelekantan, Head of the School of Chemistry welcomed the gathering with Prof. K. S. Chandrasekaran of the School of Physics in the chair. Our Vice-Chancellor Dr. S. Krishnaswamy gave the inaugural address. This was followed by presentations by teachers from the University and affiliated colleges on different aspects of the personality of Niel's Bohr as a teacher, as a philosopher, as a physicist and as a humanist.

The 51st Annual Conference of the Indian National Academy of Sciences was held from 7th to 10th November, 1985 in the University and about 160 participants attended it. Eminent Scientists like Prof. C. N. R. Rao, F. R. S., President of Indian National Academy and Chairman, Science Advisory Council to the Prime Minister, Dr. S. Varadarajan, Director General, CSIR and Dr. Yashpal, Secretary, DST, Govt. of India graced the conference by their presence.

A two-day Seminar on the New Education Policy was held on 18th & 19th November, 1985. Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University delivered the key-note address.

The Second International Symposium on Bio-membranes, Structure, Bio-genesis and Transport was organised in the School of Biological Sciences of the University from 11th to 14th December, 1985. About 30 International Scientists and 17 Indian Scientists participated in it.

The International Workshop on Organells and Bio-membranes was conducted as a Satellite activity of the above symposium in the School of Biological Sciences from 1st to 25th December, 1985. It was inaugurated by Dr. S. Krishnaswamy, Vice-Chancellor of the University. A total number of 12 participants, some from Thailand, Bangladesh, Afganistan and Iran participated in it.

Awards Honours and Fellowships :

Dr. A. Gnanam, Professor & Head, Department of Plant Sciences, was appointed Vice-Chancellor of Bharathidasan University, Tiruchirapalli.

Dr. T. J. Pandian, Professor & Head, Department of Environmental Physiology, was selected for the 1984 'Bhatnagar Award' in Biological Sciences.

Dr. Rm. Periakaruppan, Professor & Head, Department of Tamil Studies was nominated as member of the Languages Advisory Committee for Tamil for a period of three years by 'Bharatiya Gnanpit' Committee, New Delhi.

Dr. G. P. Rao, Professor & Head, Department of Management Studies was nominated by the University Grants Commission as National Lecturer for the year 1985-86.

Dr. T. J. Pandian, was nominated by the University Grants Commission as National Lecturer for the year 1985-86.

Dr. R. Jayaraman, Professor & Head, Department of Molecular Biology was nominated by the University Grants Commission as National Fellow for two years.

Dr. K. Dharmalingam, Reader in Cell Biology, School of Biological Sciences was selected as member for the Guha Research Conference.

Merit Promotion :

Merit-promotion schemes for the University faculty was implemented and seven Lecturers were promoted as Readers and five Readers were promoted as Professors.

Research Degrees:

Thirty two research scholars and sixty five teacher candidates were registered for Ph. D. degree during the year.

Dr. M. K. Chandrasekaran, Professor of Animal Behaviour, School of Biological Sciences was the first to receive the degree of Doctor of Science (D.Sc.) from the Madurai Kamaraj University for his thesis entitled "Studies on Biological Rhythms" Theses submitted by 71 candidates were accepted by the University for the award of degree of Doctor of Philosophy.

Research Projects :

Various agencies such as U.G.C., DST., Department of Atomic Energy, National Council of Educational Research and Training, CSIR, ICMR, ICAR, and ICSSR financed one hundred and five research projects from the various University Departments. The total amount funded by the various agencies for these projects is Rs. 4,37,57,890.

Research Papers :

Two hundred and sixty five papers from the various departments of the University were published in National and International Journals during the year as against 224 last year.

U. G. C. Grants :

The University is one of the five chosen by the University Grants Commission and the National Bio - technology board to conduct a Post-graduate (M.Sc) course in Bio-technology. The U. G. C. has sanctioned Rs. 1,15,32,000 for this course for five years.

New Buildings :

The construction of the following buildings was completed during the year.

1. Despatch Block for the Institute of Correspondence Course.
2. Humanities and Social Sciences Block V.

The following buildings are nearing completion:

1. Horticultural Nursery and Store room.
2. First floor over Horticultural nursery and store room.

The Energy Science Building at the University Campus was declared open by His Excellency Thiru S. L. Khurana, Governor of Tamilnadu and Chancellor of the University on Monday, the 18th February 1985. Earlier Prof. J. Ramachandran, Vice-Chancellor of the University welcomed the audience and presented a report on the School of Energy. Dr. (Mrs.) Madhuri R. Shah, Chairman, University Grants Commission was the Chief guest at the function. The Hon'ble Thiru C. Aranganayagam, Minister for Education, Government of Tamilnadu presided over the function. Dr. T. M. Haridasan, Professor & Head, School of Energy Environment and Natural Resources proposed a vote of thanks.

The Hon'ble Thiru C. Aranganayagam, Minister for Education, Govt. of Tamilnadu declared open the Rs. 7.5 lakhs building of the Open University System in the University Campus on Saturday the 13th July, 1985.

A meeting was held in this connection at the Faculty Guest House, Prof. J. Ramachandran, Vice - Chancellor presided over the meeting.

The opening functions of the buildings "Cell Biology and Genetic Engineering Laboratory" and the "Chrono - biology and Animal Behaviour Laboratory" were held on the 8th November, 1985 under the presidentship of the Hon'ble Thiru C. Aranganayagam, Minister for Education, Govt. of Tamilnadu. Dr. S. Varadarajan, Director General, CSIR and Secretary, Govt. of India declared open the "Cell Biology and Genetic Engineering Laboratory" and Dr. Yashpal, Secretary, DST., Govt. of India declared open the Chrono-biology and Animal Behaviour Laboratory.

Extension Lectures by distinguished scholars :

Eightyseven lectures were given in the various departments of the University and the names of some of the eminent scholars who delivered the lectures are given below:

- | | |
|-------------------------------------|----------------------------------|
| 1. Dr. Ph. Albert, France. | 11. Dr. Bernand Vincent, Geneva |
| 2. Dr. D. P. Khandelwal, Kanpur. | 12. Dr. J Drowart, Belgium. |
| 3. Dr. D. S. Cemeran, Canada. | 13. Prof. Bhattacharjee, USA |
| 4. Prof. Rais Ahmed, Vice-Chairman, | 14. Dr. Mittur N. Jagadish USA |
| UGC | |
| 5. Prof. John Shorter. U.K. | 15. Dr. F. Michael, Switzerland. |
| 6. Dr. E. T. Robert, USA. | 16. Prof. Harada, Japan. |
| 7. Dr. Frank Whaling, Edinburgh. | 17. Prof. K.D. McGill, Jr. USA. |
| 8. Dr. Rothermund, West Germany. | |
| 9. Dr. Gene M. Christian, USA | |
| 10. Rev. Noboru Katsuyama, Geneva | |

A list of distinguished visitors to the various departments of the University from India and abroad is given in Appendix - D.

Post - graduate Extension Centre at Tirunelveli :

This Centre continued its function with the Departments of Chemistry and Sociology, which conducted Post-graduate courses in addition to their research activities.

Information Centre at Nagercoil :

The information centre started in the year 1983 continued to function successfully catering to the needs of the students and the public of that area. A study centre in a spacious building is to begin its work shortly.



Dr. Yashpal, UGC Chairman (Secretary, DST, Govt. of India) declaring open the Chrono-biology and Animal Behaviour Laboratory on 18th November, 1985 under the presidentship of the Hon'ble Thiru C. Aranganayagam, Minister for Education, Govt. of Tamilnadu.

Fellowships of the Tamil Academy :

The fellowships of the "Madurai Kamaraj University Tamil Academy" (Tamil Peravaichemmal) for the year 1983 were conferred on two Tamil Scholars, viz., Hon'ble Silampu Chelvar, Dr. M. P. Sivagnanam and Prof. L. P. K.R. Ramanathan Chettiar at a function on 27th July, 1985 when Hon'ble Thiru C. Aranganayagam, Minister for Education, Govt. of Tamilnadu felicitated them.

Aintamizh Vizha :

The 'Aintamizh Vizha, was held at the Dr. Mu. Va Arangu from 19th to 21st March, 1985 and again from 4th to 6th November, 1985 and the various endowment lectures were delivered by the following scholars: Thiru N. Subbu Reddiar, Thiru M. A. Murugesan, Thiru SP. Annamalai, Thiru R. Kumarvelan, Thiru P.L. Samy, Thiru S. Innasi, Thiru R. Sarangapani, Thiru V.T. Manickam, Thiru Sa. Samimuthu, Thiru V. Sp. Manickam Thiru S. Sundaram, Thiru B. Murugan, and Thiru M.R.P. Gurusamy.

World Tamil Service :

Recorded Cassettes of Tamil songs for children are ready for sale all over the world and the agreement with the agency concerned for distribution in the market is under process. This service centre is also exploring the possibility of acquiring children's books in Tamil for distribution along with the cassettes to the Tamil children abroad.

Publication Division :

Dr. C. K. Mahadevan continued to be the Publications Officer. Five new books were added this year, raising the total number of publications available for sale to 84. The Publications Division participated in the book fairs.

University News Letter :

The News Letter was published in a new format with colour printing and classified news. A Special feature of the News Letter has been the inclusion of columns like "NEWS FROM THE COLLEGES" and "UNIVERSITY AWARDS", and in all seven issues were published during the year.

Biology Journal :

Four issues of the Journal, *Biology Education* a quartely of higher education sponsored by the University Grants Commission containing full-length — articles, short communication and reviews on teaching and learning materials related to Biology were published. Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University continued to be its Chief Editor,

University Science Instrumentation Centre :

Prof. N. Arumugam continued to be Professor-in-charge of the Centre. This centre is responsible for repairs and services of instruments in the University departments besides undertaking research and development work in instrumentation. The centre proposes to conduct a practical training programme shortly for the benefit of University Technicians for proper maintenance of their laboratory equipment in their day-to-day activities.

Computer Centre :

This centre continued its assistance to the teaching faculty and the research scholars of the University and the affiliated colleges in solving their computational needs. This centre extended its services to the administration and examination wing also from this year. Two courses in "Programming in Basic", one for teaching faculty and research scholars and the other for the administrative staff were conducted.

A Review Committee appointed by the University Grants Commission visited the centre during November, 1985 and has recommended its strengthening with financial assistance and a larger computer.

Science Education Centre :

Dr C.E Sooriamurthi continued to be the Honorary Director of the Centre. A new solar laboratory established in the Planetarium building was frequently visited by students from schools in and around Madurai. Classes for teaching "Morse Code" and an introductory course in Electronics were started for the benefit of students.

Study Centre :

Two study centres, one at Madurai and the other at Palayamkottai, continued to function as usual and serving the needs of the students of the colleges and ICC & CE by making available to them text books and reference books.

Sports and Tournaments :

Thiru A.R. Dhanaraj took charge as Director of Physical Education and Recreation with effect from 8-4-1985. The University teams in Ball Badminton (Men and Women), Hockey, Tennis and Weight Lifting participated in the Inter-University-Tournaments held in January, 1985. The Inter-Collegiate Women's Tournaments for the year 1984-'85 were conducted at Madurai from 5th to 7th February, 1985. The Inter-Collegiate Inter - Zone Tournaments for men for the year 1984-'85 were held in Feb-March, 1985.

National Cadet Corps:

The present strength of the National Cadet Corps in the 67 Affiliated colleges is 3,858 boys and 897 girls. A detailed report of the activities of the NCC in the affiliated colleges of the University during the year is given in Appendix S.

National Service Scheme :

Thiru S. Raju continued to be the Programme Co-ordinator of the NSS. During this year, the enrolment in the NSS was 16,000 which constituted 23% of the total students strength in the colleges. The department conducted the Inter-University Integration Camp and the Regional Workshop of NSS functionaries. Besides this, the department arranged various celebrations and conferences involving the NSS students and Programme Officers.

Department of Youth Welfare :

Thiru V. Dhakshinamoorthy continued to be the Director of the Department. This year being the International Youth year, the department organised the Youth Festival during January, 1985.

University Employment Information and Guidance Bureau:

The total number of persons registered at this Bureau was 399, among them 169 were women. Employment guidance service was also provided to the Post-graduate and Professional degree holders.

National Adult Education Programme:

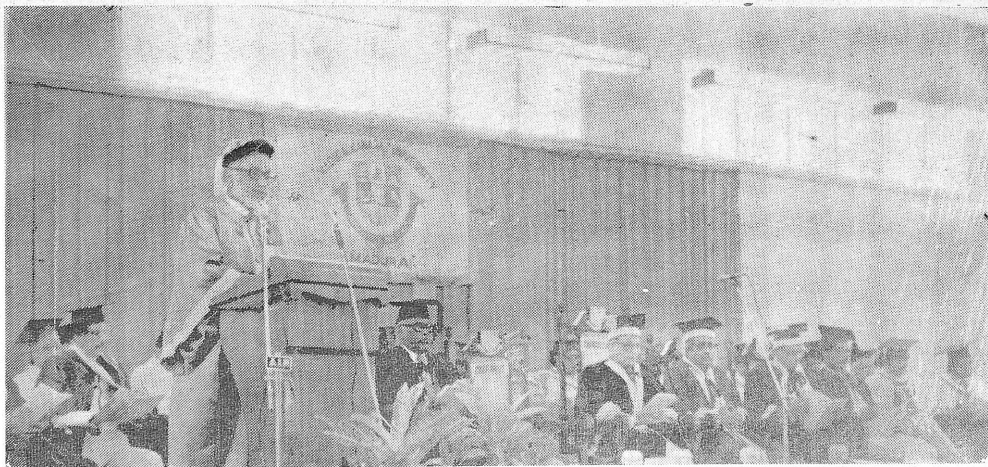
Thiru R. Rengasamy continued to be the Director of the programme. Sixty six colleges in this university area were involved in this programme. A Regional Workshop on "Colleges and Continuing Education" sponsored by the University Grants Commission was organised from 13th to 16th July, 1985 and 45 persons participated in it. A three-day workshop was conducted for Adult Education supervisors from 26th to 28th February, 1985.

Institute of Correspondence Course and Continuing Education:

Dr. T.B. Siddalingaiah continued to be the Director of the Institute. The Institute entered its 15th year of service with a total enrolment of 64,579 students as against 55,737 students last year. The Director attended the 13th International conference on Distance Education at Melbourne (Australia) 13th from to 20th August, 1985.

Open University:

The Open University entered its ninth year of service with 12,154 students. The Government of Tamilnadu has recognised the Pre-foundation and Foundation courses of the Open University for employment and academic purposes.



Prof. M. G. K. Menon F.R.S. Scientific advisor to the Prime Minister and Member, Planning Commission, New Delhi delivering Convocation address at the Nineteenth Annual Convocation held on 10th February, 1986.

Evening College:

Dr. P. Marudanayagam, Reader, Department of English took charge as Director of the college with effect from 2—5—1985. The strength of the college in the degree, Post-graduate and part-time courses during the year was 823. The college organised guidance programme for 115 students for the preliminary part of the I.A.S. examination.

Convocation:

A special Convocation was held at 3 p.m. on 18th March, 1985 to confer the Honorary Degree of Doctor of Science on Dr. Eli Friedman, Prof. of Medicine and Head of the Division of Nephrology, Downstate Medical Centre, Brooklyn, New York (USA). The Hon'ble Thiru C. Aranganayagam, Minister for Education and Pro-Chancellor of the University presided over the convocation.

The nineteenth Annual Convocation of the University was held on 10th February, 1986. His Excellency Thiru S.L. Khurana, Governor of Tamilnadu and Chancellor of the University presided over the function. Prof. M. G. K. Menon, Member Planning Commission delivered the Convocation address. One hundred and sixty one candidates took their degrees in person.

CHAPTER-I:

University Departments and Affiliated Colleges :

University Departments

The University Departments continued their activities of teaching and research during the year. There were 1030 Post-graduate and M. Phil. students and 194 full-time research scholars in the 40 University Departments. There were 42 Professors 70 Readers and 203 Lecturers. This includes 32 new teachers appointed during the year.

The names of University teachers who went abroad during the year are given below :

TABLE—1

Sl. No. (1)	Name of the teacher (2)	Name of the department (3)	Country visited (4)	Purpose of visit and period (5)
1.	Dr. T. M. Haridasan	Energy.	Italy	3 months from June to September 1985 to participate as associate member in the activities of International Centre for Theoretical Physics, Trieste.
2.	Dr. C.B.S.R. Sharma	-do-	Thailand	19th to 22nd February, 1985 to participate in the International Pesticide Conference at Chingmai.
3.	Dr. S. Balasubramanian	Physics	Italy	Participated in the condensed matter research workshop at Trieste, Italy, June to September 1985.
4.	Dr. T. Vasanthakumari	Linguistics	France	To attend the 13th World Congress of the International Political Science Association.

(1)	(2)	(3)	(4)	(5)
5.	Dr. S. Krishnaswamy	Biology	U.S.A. & Thailand	15th to 20th July, 1985 To attend the SCOPE, General Assembly in Washington D. C. September 1985
	-do-	-do-		UNEP meeting of General Environmental Education at Tertial level at Bangkok, November, 1985.
6.	Dr. S. Subramanian	Political Science	France	To attend the XIII World Congress of the International Political Science Association in Paris.
7.	Thiru Albert Johnson	-do-	France	For attending the XIII World Congress of Interna- tional Political Science Association. 15th July to 20th July, 1985.
8.	Prof. T. J. Pandian	Animal Sciences	Norway	Visiting Scientists" September - October 1985
9.	-do-	-do-	Malaysia	For participation in II Asian Conference. December, 1985.
10.	Dr. S. Mathavan	-do-	-do-	For Participation in II Asian Conference. December, 1985.
11.	Prof. M.K. Chandra- sekar	Animal Behaviour	USA	To attend the Gordon Conference at Plymouth, New Hampshire, USA.
12.	Dr. R. Subbaraj	-do-	FRG	Research work for 18 months
13.	Dr. N. Jayaraman	Tamil Studies	Ceylon	To attend the International Conference of Saiva Religion.'-
14.	Dr. S. Rajagopal	Chemistry	Japan	UNESCO research Fellow- ship for a year from October 1985:
15.	Dr. M. Palaniandavar	-do-	USA	For Post-doctoral studies at Drexel University, Philadel- phia for two years.

M. Phil. Programme :

Admissions to the M.Phil. degree course were made in different subjects in the University Departments. Details of number of the candidates admitted to the course are given below :

TABLE—II

Sl.No.	Subjects	Men	Women	Total
1	Tamil	12	24	36
2	English	7	19	26
3	History	17	13	30
4	Economics	16	10	26
5	Geography	2	6	8
6	Sociology	9	3	12
7	Political Science	10	3	13
8	Sanskrit	1		1
9	Education	5	4	9
10	French	1	3	4
11	Mathematics	21	4	25
12	Physics	5	7	12
13	Chemistry	6	4	10
14	Energy & Environment	4	4	8
15	Commerce	10	5	15

M.Sc. Bio-technology Course :

This University has been selected by the University Grants Commission and National Bio-technology Board for conducting a teaching Programme in M.Sc. Bio-technology. A sum of Rs. 115.32 lakhs has been sanctioned for this purpose. Accordingly, the new course was started in the School of Biological Sciences with a strength of 10 students admitted this year. A sum of Rs. 400/- is being paid as fellowship for the students per month.

Institute of Correspondence Course and Continuing Education:

The Institute of Correspondence Course and Continuing Education is entered its 15th year of Service. The enrolment of the Institute is 64,579 (Excluding Open University System) this year as against 55,737 last year.

The Institute at present offers nine under-graduate courses (History, Political Science, Social Sciences, Economics, Geography, Tamil, English, Mathematics and Commerce) seven Post-graduate courses (History, Political Science, Economics, Tamil, English, Gandhian Thought and M.Com.) and B.G.L., B.Ed., and M.Ed., degree courses, Foundation Courses under Open University System are also offered.

The staff at present consists of a Director, three Deputy Directors (One each for Education, Open University System and the Institute of Correspondence Course and Continuing Education) and 112 teachers. The Administrative staff at present consists of 315 persons with two Deputy Registrars and four Assistant Registrars.

Contact Seminars were arranged in five different centres for various courses. The Radio broadcasting programme covered all the courses conducted by the Institute of Correspondence Course and Continuing Education besides summer broadcasting arranged for B.Ed. and M.Ed. students during vacation.

For the benefit of the students of Institute of Correspondence Course and Continuing Education, information centres functioned at Madras, Tirunelveli, Madurai and Nagercoil.

The details of number of students in different courses in the Institute of Correspondence Course and Continuing Education are given below.

TABLE—III

Name of the Course	Students as on 31-12-1984			Students as on 31-12-1985		
	Men	Women	Total	Men	Women	Total
Degree	21,595	11,407	33,002	26,024	14,313	40,337
Post-graduate	13,300	5,290	18,590	11,958	6,898	18,856
Professional	3,066	1,079	4,145	3,922	1,464	5,386

Under the Faculty Improvement Programme, four teachers were deputed to work for Ph.D. degree and three granted study leave to complete their Ph.D. Programme.

Evening College :

The Evening College continued to function in the City Complex. The college at present offers Under-graduate and Post-graduate courses in addition to certain part-time certificate and diploma courses. The staff at present consists of One Director and 140 part-time teachers. The student enrolment of the college is 823.

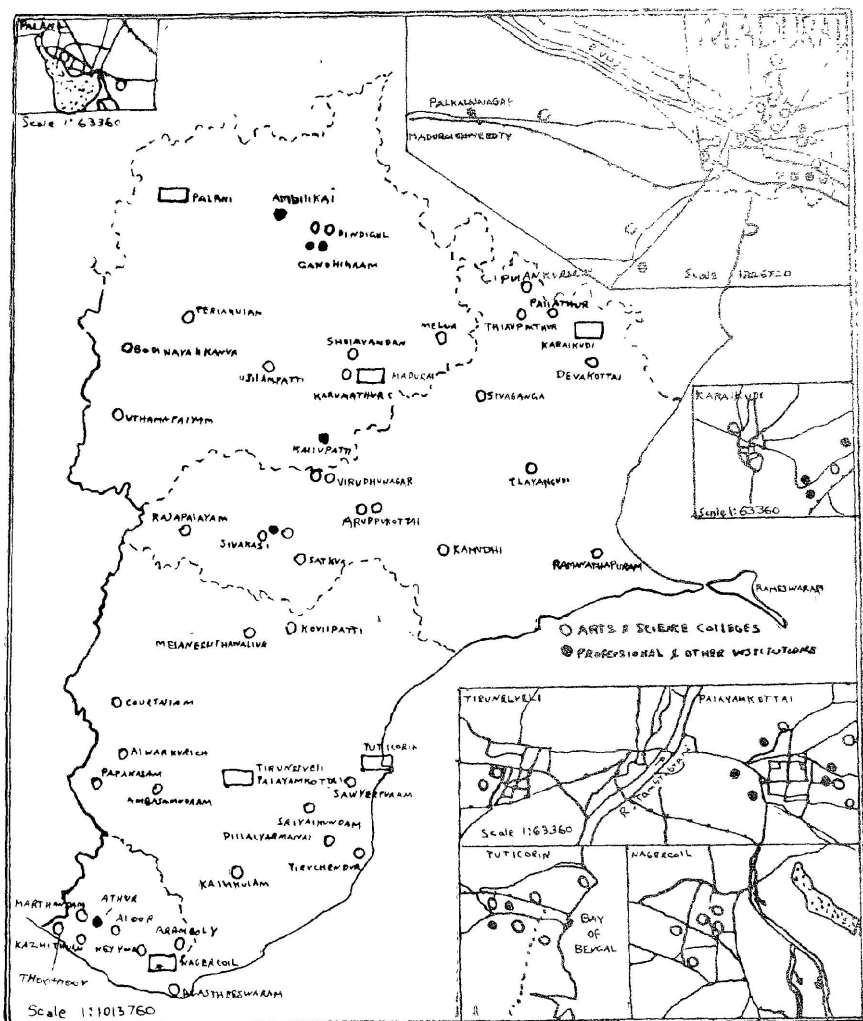
Affiliated Colleges :

Further affiliations for the Post-graduate courses were granted to 14 colleges and for Under-graduate courses to 15 colleges during the year. Permission to start the Evening College for B.Com. degree course was given to two colleges besides permission to offer certificate and diploma courses by nine colleges. Details of courses granted to the colleges are given in Appendix-F.

Table IV shows the number of colleges affiliated to the University under different categories :

TABLE - IV
Nubmer of colleges in different years

	1983	1984	1985
I. Colleges for General Education :			
Men : Government	3	3	4
Aided	58 + 1*	58 + 1*	59 + 1*
Women : Government	3	3	3
Aided	17	17	17
II. Colleges for Professional Education :			
a. Law : Government	1	1	1
b. Medicine : Government	2	2	2
c. Indian			
Medicine : Government	1	1	1
d. Pharmacy : (Self-Financing)	—	—	1
e. Engineering : Government	2	2	2
Aided	1	1	1
Self-Financing	—	6	7
f. Education : Men : Aided	6	6	5
Women : Aided	3	3	3
g. Physical Education : Aided	1	1	—
III. Other Institutions			
	5**	5**	5**
	103 + 1*	111 + 1*	111 + 1*



-
- * M.G.N. College, Sankarankoil, 'Subject to the orders of the Supreme Court in the appeal and the stay application filed on behalf of the University against the order of the High Court in the Writ Appeal No. 327 of 1974'.
 - ** This includes Aravind Eye Hospital, Madurai which is offering D. O. Course.

Dr. Alagappa Chettiar Training College, Karaikudi and Alagappa College of Physical Education, Karaikudi have affiliated to Alagappa University, Karaikudi since the year 1985.

College Development Council :

The term of the College Development Council expired in September, 1985 and the Council has been reconstituted.

On the whole, 68 colleges had availed themselves of the grants released by the U.G.C. under various schemes. The Sub-committees of the College Development Council constituted to ensure the proper utilisation of grants visited 58 colleges and inspected the accounts relating to utilization of funds received from the U. G. C. The reports of the inspection committees regarding the maintenance of accounts were sent to the U.G.C. and Government of Tamilnadu.

Details of grants sanctioned under various schemes to the colleges by the U.G.C. are given in Appendix-Q.

TABLE — V

Students Strength:

Particulars regarding the total number of students under different courses in the colleges (including Evening College) are given below:

	Students as on 31—12—1984			Students as on 31—12—1985		
	Men	Women	Total	Men	Women	Total
Degree	32,751	21,103	53,854	31,305	19,562	50,867
Post-graduate Degree (Excluding Professional Degree)	2,954	2,091	5,045	3,417	2,305	5,722
Professional Degree	6,082	2,424	8,506	8,552	2,171	10,723
P.G. Professional Degree	291	70	361	210	46	256
Others :						
(Pulavar - Certificate and Diploma Courses)	897	305	1,202	882	314	1,196
M.Phil.	45	49	94	46	21	67
Ph.D.	14	13	27	—	—	—

EXAMINATION RESULTS

A statement showing the number of candidates who appeared and passed the various examinations held during the year 1985 is given below :

TABLE - VI

Subjects	No. of students who appeared	No. of students who Passed	Percentage of Passed	No. of students who passed in I Class
O. T. Preliminary	432	105	24.31	Nil
O. T. Final	419	134	31.98	1
B. A. (Semester)				
Tamil	148	119	80.41	88
English	825	544	65.94	70
Economics	1329	850	63.96	390
History	1362	827	60.72	337
Sociology	62	53	85.48	19
Political Science	26	6	23.08	Nil
Philosophy	19	17	89.47	14
Indian Culture	6	6	100.00	Nil
B.A. (Spl.)	37	8	21.62	—
B.Music	14	9	64.28	3
B.Litt	23	16	69.56	3
B. A. (Non-Semester)				
Tamil	37	1	2.70	Nil
English	39	4	10.26	„
Economics	367	12	3.27	„
History	894	60	6.27	„
Social Sciences	16	1	6.25	„
Political Science	38	6	15.79	„
B. Sc. (Semester)				
Mathematics	1702	700	41.13	567
Physics	986	634	64.30	607
Chemistry	1758	881	50.11	839
Botany	708	381	53.81	290
Applied Zoology	45	24	53.33	18
Geology	57	22	38.60	7
Zoology	1318	715	54.25	571

(1)	(2)	(3)	(4)	(5)
B.Sc. (Non-Semester)				
Mathematics	334	19	5.69	1
Physics	257	2	0.78	1
Chemistry	409	6	1.47	Nil
Botany	313	3	0.96	„
Zoology	355	8	2.25	„
B. Com. (Semester)	2189	1417	64.73	787
B. Com. (Non-Semester)	6726	581	8.64	8
B.B.A. (Semester)	384	212	55.20	49
M. A. (Semester)				
Tamil	209	158	75.60	136
English	341	168	49.27	55
Economics	302	197	65.23	170
History	273	172	63.00	140
Sociology	29	25	86.21	12
Social Work	40	33	82.89	28
Political Science	12	7	58.33	6
Linguistics	8	7	87.50	5
Philosophy & Religion	10	8	80.00	5
French	5	4	80.00	4
Malayalam	5	4	80.00	3
M. A (Non - Semester)				
Tamil	1650	319	19.33	12
English	2293	1107	48.28	Nil
Economics	1940	268	13.81	„
History	2938	370	12.50	„
Political Science	1781	319	17.91	„
M. Com. (Semester)	600	250	41.67	„
M. Com. (Non-Semester)	1450	275	18.97	„
M. Sc. (Semester)				
Mathematics	302	207	68.54	206
Mathematical Economics	15	12	80.00	11
Physics	117	48	41.03	47
Chemistry	91	59	64.84	59

(1)	(2)	(3)	(4)	(5)
M.Sc. (Semester)				
Botany	132	84	63.64	77
Zoology	108	86	79.63	86
Geology	17	15	88.24	15
Geography	29	15	51.73	12
Peace Making	12	8	66.67	5
Rural Development Science	18	13	72.22	13
Mathematics (Non-Sem.)	91	31	14.29	2
M. Music	1	1	100.00	1
M. B. A. (Semester)	30	22	73.33	21
M.B.A. (Non-Semester)	56	30	53.57	18
MBBS	290	114	39.31	—
B. Pharm	17	13	76.47	—
B.S.M. & S.	19	14	68.62	—
M. D.	92	21	22.82	—
M. S.	43	16	37.20	—
M.Ch.	9	7	77.77	—
B.E. (Semester)				
Civil	299	212	70.90	210
Electrical & Electronics	34	52	73.52	23
Electronics & Communication	90	71	78.88	71
Mechanical	173	128	75.14	130
B.Ed. (Sem)	970	872	89.89	60
B.Ed. (Non-Sem)	1030	520	50.48	68
M.Ed. (Sem)	14	12	85.71	11
M.Ed. (Non-Sem)	1121	457	40.76	57
B.P.Ed. (Sem)	102	96	94.11	28
M.P.Ed. (Sem)	26	26	100.00	13
B.L.I.Sc.	37	37	100.00	5
M.L.I.Sc.	6	6	100.00	4
Certificate Courses	1337	231	17.28	96
Diploma Courses	413	228	55.21	145

Convocation:

The nineteenth Convocation address was delivered by Prof. M.G.K. Menon, F.R.S., Scientific Adviser to Prime Minister and Member, Planning Commission, New Delhi. It was a wholesome message to the young graduates, concerning the world which they would be moving into, "a world characterized

by tremendous problems and challenges, but equally, undreamt of opportunities". The distinguished scientist, indicating the magnitude and complexity of the problems relation to population, environment and ecology, food agriculture, employment and energy addressed himself to a clinical analysis of the role of science and technology, education and large scale societal involvement and participation in meeting these challenges. Since independence, we have witnessed a succession of Ages of man: the Nuclear Age, the Age of Electronics and Informatics, and the Age of New Biology. The speaker underlined the urgent need to use the new developments in new Biology; to increase agricultural production, to eliminate many of the diseases which harass us, and improve the health status of our society; to curb our population, and to produce a range of industrial items that hitherto have been made by more cumbersome chemical and other processes.

In the second part of the address, Prof. Menon concentrated on education and our responsibilities. The first and foremost requirement is, of course, to universalise and democratise school education. Since all over the world, nations are finding their educational policies, obsolete, we have to increase the tempo, change of quality, and produce a new design for education, offering considerable scope for part-time, as well as a great deal of non-formal education. Education being the concern of the whole country, the entire community of citizens must be involved in its programmes and committed to its tenets and the prime responsibility of the educated is to create a climate for the mobilisation of society. Education must bring out the right value systems which alone can provide internal strength. A nation like India, with its traditions of scholarship and cultural heritage should "participate fully in the march of science", in as much as science relates to the whole gamut of questioning and interaction, the absence of a hierarchy, and the ability to give free rein to the spirit of enquiry.

The learned address ended on an optimistic note that everyone of us will be able to contribute to meeting the challenge before us successfully.

Regulations and Statutes:

Amendments to the statutes and Regulations of the University passed at the meetings of the Senate and the Academic Council during the year are given in Appendix - H.

CHAPTER - III

Research Activities

Research Work is being carried on in all the departments of the University as well as in some of the affiliated Post-graduate Colleges.

Nineteen new schemes were sanctioned during the year for undertaking research projects in the University Departments. The schemes under operation in the University Departments are given in Appendix-M.

Research in the University Departments :

During the year 1985, one candidate was awarded D.Sc., degree, 71 persons were awarded Ph. D., and 65 teachers registered for the Doctorate Degree. One candidate was awarded M. Litt.

A statement showing the names of the candidates registered under various research projects under different Supervisors is given in Appendix-K.

Particulars regarding the total number of Research Scholars working in the Departments under various categories are given below :

TABLE-VII

Sl. No.	Subjects	University seniary	UGC (Allocation)	UGC Direct award	CSIR	ICMR	CILL	ICAR	TOTAL
1	2	3	4	5	6	7	8	9	10
1.	Tamil	12	5	—	—	—	—	—	17
2.	Linguistics	2	—	2	—	—	—	3	7
3.	Sanskrit	1	—	—	—	—	—	—	1
4.	(a) Malayalam	2	—	—	—	—	—	—	2
	(b) Malayalam Chair	1	—	—	—	—	—	—	1
5.	Telugu	1	—	—	—	—	—	—	1
6.	Kannada	1	—	—	—	—	—	—	1
7.	English	3	1	—	—	—	—	—	4
8.	Economics	4	1	—	—	—	—	—	5
9.	History	5	2	—	—	—	—	—	7
10.	Political Science	2	1	—	—	—	—	—	3
11.	Sociology	2	—	—	—	—	—	—	2
12.	Education	3	1	—	—	—	—	—	4
13.	Mathematics	6	1	—	—	—	—	—	7
14.	Physics	4	4	—	2	—	—	—	10
15.	Chemistry	6	4	—	6	—	—	—	16
16.	Biology	4	8	—	31	5	—	1	49
17.	Energy Science	2	—	2	2	—	—	—	6
18.	Geography	3	—	—	—	—	1	—	4
19.	Management	2	—	—	—	—	—	—	2

1	2	3	4	5	6	7	8	9	10
20.	Library Science	2	—	—	—	—	—	—	2
21.	Gandhian Studies and Ramalingar Philosophy.	2	—	—	—	—	—	—	2
22.	Research Associate (Energy Science)	4	—	—	—	—	—	—	4
23.	ANJA Endowment Fellow	1	—	—	—	—	—	—	1
24.	ICC & CE: Tamil	2	—	—	—	—	—	—	2
	Political Science	2	—	—	—	—	—	—	2
	Economics	2	—	—	—	—	—	—	2
25.	P.G. Extension Centre, Palayamkottai.								
	a) Chemistry	2	—	—	—	—	—	—	2
	b) Sociology	1	—	—	—	—	—	—	1
26.	University Fellowship in the Affiliated Colleges.								
	Thiagarajar College								
	a) Tamil	1	—	—	—	—	—	—	1
	b) Zoology	1	—	—	—	—	—	—	1
	V.O.C. College Chemistry	2	—	—	—	—	—	—	2
	Alagappa College Tamil	2	—	—	—	—	—	—	2
	S.T. Hindu College: Tamil	2	—	—	—	—	—	—	2
	A.P.A. Arts College: Botany	2	—	—	—	—	—	—	2
	VHNSN College: Chemistry	2	—	—	—	—	—	—	2
Grand Total		96	28	4	41	5	1	4	179

The following theses submitted by the candidates, whose names are indicated against their theses have been accepted by the University for the DSc, Ph. D./M.Litt. Degree and they have been declared qualified for the same.

TABLE—VIII

Sl.No. (1)	Name of the Candidate (2)	Title of the thesis for the degree (3)	Name of the Supervisor (4)
DOCTOR OF SCIENCE (D. Sc)			
1.	Dr. M.K. Chandrasekaran	"Studies on Biological Rhythms"	Independent Research
DOCTOR OF PHILOSOPHY (Ph.D.)			
2.	Tmt. T. Manonmoney	"குழுத்தின் இத்தியல் உத்திகள்"	Dr. M. Israel
3.	Thiru S. Somasundaram	"Anti inflammatory Activity of <i>Clerodendron inerme</i> a Bio-chemical Approach"	Dr. A. Sadique
4.	Thiru M. Velusamy	"A Comparative Study of Folk Religion Among a few communities in Madurai District"	Dr. M. Shunmugam Pillai
5.	Thiru K.L. Karuppusamy	"Periyar E.V. Ramaswamy and the Reform Movement in Tamil Nadu 1944-1973"	Dr. K. Rajayyan
6.	Thiru N. S. Nagarajan	"Chemistry of Natural Products (some isolation and Synthetic Studies)"	Dr. S. Neelakantan & Dr. V. Narayanan
7.	Thiru A. Gopalan	"Studies of Electron Transfer and Redox induced Polymerization"	Dr. N.R. Subbarathinam
8.	Thiru S. Rajagopal	"Kinetics and Mechanism of Oxidation of Organic Compounds"	Dr. C. Srinivasan
9.	Thiru A. Shunmugasundaram	"Studies on correlation Analysis"	Dr. N. Arumugam & Dr. C. Srinivasan

(1)	(2)	(3)	(4)
10.	Thiru K. Venkataraman	"Taxonomy and Ecology of Cladocera of Southern Tamil Nadu".	Dr. S. Krishnaswamy
11.	Thiru A. Sasidharan	"Repression and Depression of Chloroplast Development in Chlorella Protothecoides".	Dr. A. Gnanam
12.	Thiru A. Anantharaj	சிவஞான முனிவரின் சைவசித்தாந்த விளக்கம்	Dr. Sp. Annamalai
13.	Selvi N. Usha Devi	கவியோகி சுத்தானந்த பாரதியாரின் படைப்பிலக்கியம் - ஓர் ஆய்வு	Dr. D. Andiappa Pillai & Dr. N. Jayaraman
14.	Mrs. V.S. Valliammal	தமிழில் புதுக்கவிதை இயக்கமும் எழுத்து இயலும்	Dr. S. Natarajan
15.	Thiru K. Raveendran	தி.க. சண்முகம் நாடகங்கள் - ஓர் ஆய்வு	Dr. G. Vijayavenugopal
16.	Selvi S. Mahalakshmi	தமிழில் பெயர்ச்சொற்களும் அமைப்பும் - ஓர் ஆய்வு	Dr. M. Israel
17.	Thiru S. Velayudham	"Hierarchy of Market Centres and Consumer Travel Pattern in Madurai Metropolitan Area	Dr. S. Gopalakrishnan
18.	Selvi K. Gowri	"Urban Geography of Madurai City An Analysis of Hierarchy of Shopping Centre and Consumer Travel Preferences"	Miss A.R. Iravathy
19.	Thiru C. Ramachandran	"Effects of Select drugs of Abuse on chosen Regions of the Central Nervous System - A Historical Study".	Dr. Mrs. Parvathy Devi

(1)	(2)	(3)	(4)
20.	Thiru A.R. Augustine Rajakumar	"Control of Cell Proliferation - Analysis of DNA Binding Proteins from Tumor Cells".	Dr. G. Shanmugam
21.	Thiru J. Kuppusami	"Ultrasonic Studies on Concentrated Solutions upto Saturation - Role of Internal Pressure and Free Volume of solutions".	Dr. C.V. Suryanarayanan Dr. N. Arumugam
22.	Thiru S. Selvaraj	"Studies in Alicyclic Systems"	Dr. K. Rajayyan Independent Research
23.	Thiru P. Chelladurai	"Working class movement in Tamil Nadu 1918-1947".	Dr. M.S. Lakshmanan & Dr. D.L. Narayanan
24.	Selvi M. Gajalakshmi	"Coffee Industry of South India",	Dr. P.V. Ramakrishnan
25.	Thiru S. Pitchaimuthu	"Economic Development of Two Towns" Virudhunagar and Sivakasi".	Dr. G. Shanmugam
26.	Thiru S.K. Ayyaswamy	"Topics in Analysis"	Dr. C. Natarajan
27.	Thiru S. Kalyanaraman	"Regulation in Eukaryotes : Studies on Eukaryotic RNA processing Enzymes.	Dr. RM. Periakaruppan Dr. RM. Periakaruppan
28.	Thiru A. Nazear Hussain	"Studies on Metal Complexes ligands derived from some carbonyl compounds"	
29.	Thiru P.B. Rajendran	"Literary Theories as found in Thirugnana sambandar Thevaram".	
30.	Tmt. P. Vijayalakshmi	"Akam Convention in Alwar Hymns"	

(1)	(2)	(3)	(4)
31.	Thiru A. Ganesan	"The Press in Tamil Nadu and the struggle for Freedom 1917 - 1937"	Dr. K. Rajayyan
32.	Thiru L. Joseph Soundara Rajan	"An Economic Study of Printing Industry in Ramanathapuram District".	Dr. Miss M. Gajalakshmi
33.	Thiru P. Manisankar	"The Chemistry of Nitrones"	Dr. S. Sivasubramanian
34.	Thiru S. Thangavelu	"Studies on the Electro-Chemical Reduction"	Dr. M.V.K. Udappa
35.	Thiru S. Balachandra Dass	"Control of Macromolecular Synthesis in <i>Escherichia Coli</i> - Genetic and Physiological Analysis of FIT and RPO Mutants."	Dr. R. Jayaraman
36.	Thiru M.S.M. Christopher	"Bioenergetics and Populations Dynamic Studies of a chosen lepidopteran <i>Catopsilia crocale cramer</i> "	Dr. S. Mathavan
37.	Tmt. Kantha Arunachalam	"Studies on Pesticide-Soil - Microbes Interactions with reference to carbofuron and crop plants"	Dr. M. Lakshmanan
38.	Selvi C.D. Lethi	"Studies on the Thermo-physiology of the Inland crab <i>Paratelphusa hydrodromicus</i> "	Dr. S. V. Job
39.	Tmt. S. Meenakshi	"Studies on cardiac Hypertrophy : RNA Synthesis and Transport during Hypertrophy."	Dr. C. Rajamanickam

(1)	(2)	(3)	(4)
40.	Selvi A. Noorjahan	"Ecophysiological Studies on a stored Product pest"	Dr. S. Chockalingam
41.	Thiru K. Rajakumar	"Studies on the Influence of Environmental Factors of Azotobacter Chroococcum with special reference to its survival and Nitrogen Fixing Ability".	Dr. M. Lakshmanan
42.	Thiru S. Perumal	"Studies in Kinetics of Oxidation of Organic compounds".	Dr. N. Arumugam & Dr. C. Srinivasan
43.	Thiru R. Arumugam	பழந்தமிழர் பண்பாடு	Dr. S. Subramanyan
44.	Tmt. K. Parameswari	கன்னியாகுமரி மாவட்ட இன அடிப்படைத் தாலாட்டு ஒப்பாரிப் பாடல்களில் ஒற்றுமை வேற்றுமைகள்	Dr. G. Vijayavenugopal
45.	Thiru M. D. Jeyabalan	Byron and Bharatidasan-A Comparative Study	Dr. V. Sachithanandan
46.	Tmt. A. Nirmala	The Language of John Osborne	Dr. K. Chellappan & Dr. T. Prabakar.
47.	Thiru A. Vijayarajan	The Impact of Agro-based on the Industries on the Agricultural Economy of Madurai District with special reference to Sugar Industry.	Dr. M. Lakshmanan & Dr. A. Ramasamy
48.	Thiru P. B. Gopalakrishnan	Freedom Movement in Tamil Nadu (with Special reference to Extremism).	Dr. K. Rajayyan

(1)	(2)	(3)	(4)
49.	Selvi Nithyakalyani Raghavan	Mitochondriogenesis in Yeast : Studies on Mitochondrial RNA Metabolisms"	Dr. J. Jayaraman
50.	Selvi M. Manikka Sundari	Studies on T-Cells of the Lizard Calotes versicolor.	Dr. RM. Pitchappan
51.	Thiru P. Srinivasan	Studies in Projective Geometry	Dr. T. V. S. Jagannathan
52.	Thiru S. Visweswaran	Topics in Algebra - (Subrings of the Type $D - 1$ in $K (X_1, \dots, X_n)$ and Laskerian Pairs.	Dr. R. Raghavendran
53.	Thiru T. Chockalingam	பின்னடைத் தமிழ் - ஓர் ஆய்வு.	Dr. R. Sarangapani
54.	Thiru Nagappa Nachiyappan	திருப்பரங்குன்றம் கோவில்.	Dr. RM. Periakruppan
55.	Thiru S. Sathiyagirirajan	Competency Personality Motivation and Profession perception of College teachers.	Independent Research
56.	Thiru M. Krishnan	Studies on the Bioenergetics of a chosen Insect pest.	Dr. S. Chockalingam
57.	Thiru S. Kalyanasundaram	Physico-Chemical Investigation on Liquid and Liquid Mixture Systems.	Dr. C. Prabhakara Rao
58.	Tmt. C. Edith	Jane Austen Novels. Sense and Sensibility in her characters.	Dr. K. Chellappan
59.	Thiru C. Sanjeevaraja	Studies on Crystalline solid solutions and other systems.	Dr. S.K. Mohanlal
60.	Thiru V. Umayoru Bhagan Pillai	Studies on Carbocyclic Ring Systems	Dr. N. Arumugam & Dr. V. C. Devanathan

(1)	(2)	(3)	(4)
61.	Tmt. K. Balamani	தமிழ்ப் பாடல் திரட்டு - ஓர் ஆய்வு.	Dr. RM. Periakaruppan & Dr. R. Shanmugam.
62.	Thiru N. Lakshmanaperumal	சப்பிரமணிய பாரதியாரின் ஆன்மிகச் சிந்தனைகள்.	Dr. N. Jayaraman
63.	Thiru T. Sriganesan	Flora of Alagar Hills	Dr. D. Padmanabhan & Dr. J. Joseph
64.	Thiru N. S. Natarajan	The Distributor Theory of Near Rings	Independent
65.	„ D. Chandran	Studies of Popsi (Postulate base-permitted subject indexing) in terms of its retrieval efficiency and economic efficiency.	Dr. G. Bhattacharyya
66.	„ T.S. Giriprakash	A Critical Study of the works of Gnanapavarapu Venkatakaia	Dr. C. R. Sarma
67.	„ B. S. Subba Rao	Satire in Medieval Kannada Literature	Dr. P.S. Srinivasa
68.	„ P. Valan Arasu	தேம்பாவணித் திறன்.	Dr. M. Israel
69.	„ N. Chockalingam	வண்ணச் சரபம் தண்டபாணி சுவாமிகளின் இலக்கணக் கோட்பாடுகள்.	Dr. RM. Periakaruppan & Dr. D. Andiappapillai.
70.	Tmt. R. N. Jothibai	சங்கப்புகழ் பாடல்களின் திணை, துறை ஆமைப்பு	Dr. RM. Periakaruppan & Dr. A. Subramonia Pillai
71.	„ Susibai Paulraj	The Impact of Charles Lamb on the works of E. V. Lucas.	Dr. R. Sivathanu Pillai & Dr. K.Chellappa
72.	Thiru M. Noel	Studies on Electron Transfer Homogeneous Redox Catalysis on Glassy Carbon Electrodes.	Dr. P.N. Ananatharaman

M.Litt.

1. C. Gousalya
- South Indian History as revealed in Tamil Ballads.
- Dr. P. Sarveswaran

CHAPTER-IV

CAMPUS AMENITIES

Building Division

Thiru S. Jagannathan continued as the University Engineer during the year. The services of some of the engineering staff on deputation were used for the building works of the University.

The following major buildings were completed during the year :

1. Despatch Block for the Institute of Correspondence Course and Continuing Education.
2. Humanities and Social Sciences Block No. V.
3. Chrono-cubicles complex.
4. The Open University Building.

The formation of the third service road and providing water supply line in this road were completed.

The following buildings are under construction :

1. Annexe to Mathematics Department.
2. Annexe to women's Hostel.
3. First floor accommodation to Men's Hostel.
4. Annexe to Dr. T. P. M. Library.
5. Horticultural Nursery and store room.

Other minor works at the University campus and the City Complex were also attended to by the Engineering Division during the year.

Hostels :

For the benefit of the Post-graduate students and Research Scholars, there are three Men's Hostels with a strength of 410 students and two Women's Hostels, accommodating 248 students.

Dr. S. Shanmugasundaram, Reader, School of Biological Sciences and Dr (Mrs) Thara Bai, Reader, Department of Sociology continued to be the wardens of the Men's and Women's Hostels respectively.

Madurai Kamaraj University Central Co-operative Stores :

The Stores completed its 17th year of service in 1985. The total number of members of the stores is 2,148 during this year, the new members admitted being 28. The stores caters to the needs of the staff of the University, affiliated colleges and the staff quarters. It also supplied essential commodities to the family card holders.

Madurai Kamaraj University Co-operative Printing Press :

The Madurai Kamaraj University Co-operative Printing Press is doing printing and other allied works for the University, Institute of Correspondence Course and Continuing Education and affiliated colleges. The University has subscribed a sum of Rs. 5/- lakhs as share capital and the number of members of the press is 35.

Transport facilities :

Six staff buses were used for the commutation by the staff. The Pandyan Roadways Corporation has pressed into service a number of buses to the University campus, besides many specials during the peak hours for the convenience of the staff, the students and the public. In addition to the above, the fast-passenger train between Madurai and Bodinayakanur also stops at Palkalainagar.

Health Centre :

This centre continued to function in the University campus with a Medical Officer. There is also a Lady Medical Officer who takes care of the women students in the hostel. The staff residing in the University campus and the villagers were benefitted by the services rendered at the centre.

CHAPTER-V

Development Activities

The University has formulated its Seventh Plan Proposals.

The main emphasis is on consolidation and expansion of the existing research and teaching facilities. The proposals have been broadly divided into the following three categories :

- a. Consolidation and Expansion of Existing Schools / Departments.
- b. Campus Development
- c. New Proposals.

The new proposals include the establishment of centres for Folk Arts, Mass Communication and Area Studies. Provision for strengthening and expansion of the common facilities, viz., Computer Centre, University Science Instrumentation Centre and Language Laboratory has also been made.

The abstract of the proposals is given below:

Sl. No	Scheme	UGC share	State share	Total
(Rs. in lakhs)				
1.	Building	50.00	50.00	100.00
2.	Staff	17.75	—	17.75
3.	Equipment	53.50	—	53.50
4.	Books and Journals	20.00	—	20.00
5.	Others	108.75	—	108.75
		250.00	50.00	300.00

Details of some Seminars, Conferences, Symposia held during 1985.

A full-time residential course of a week's duration on "Research Methods in Management for College Teachers" was held under the auspices of the Department of Management Studies from 7th to 12th January, 1985. This course was sponsored by the Indian Council for Social Science Research. Nine participants from the Colleges of Madurai Kamaraj University area participated it.

A short term course on "Gene cloning and DNA Sequencing" was organised under the auspices of the School of Biological Sciences from 31st December 1984 to 21st January 1985. The training programme was financed by the NBTB (DST) to the tune of Rs. 2,46,000. Fifteen out-station participants from all over India and one local participant attended the training programme. The training course was inaugurated by Prof. J. Ramachandran, Vice-Chancellor, Madurai Kamaraj University. Dr. M. V. Hegde from Pune University and Dr. (Mrs.) Amita Biswas of NBTB attended the programme as special invitees. The NBTB Short - term training course is an All India level training course.

A National Seminar on "Trends in Historical writings on Modern India; 1857-1980" sponsored by the University Grants Commission was held under the auspices of the School of Historical Studies from 16th to 19th February, 1985. About 45 outstation-participants from all over India and about 15 local participants attended the seminar. The seminar was inaugurated by Prof. J. Ramachandran, Vice-Chancellor, Madurai Kamaraj University. The Key-note address was given by Prof. B. Sheik Ali, Vice-Chancellor, Mangalore University and the Valedictory address by Prof. S. V. Chittibabu, Vice-Chancellor, Annamalai University.

An one-day State-level Seminar on "Social Audit" held under the auspices of the Dept. of Management Studies on 21-2-85, was financed by the University. Sixty participants from academic institutions, training centres, industrial organisations, non-profit institutions and employee associations attended the seminar. The inaugural address was given by Mr. A. Evans, Managing Director, Fenner India Ltd., Madurai. The Key-note address was delivered by Mr. M. S. S. Varadan, Managing Director, M s Om Constructions Pvt., Ltd., Bangalore.

An one-day Seminar on "Manikodi" was held on 8.3.85 under the auspices of the Dept. of Tamil of the University. It was presided over by Deepam Na. Parthasarathy. Teachers and students from Fatima College, Lady Doak College, Yadava College and Thiagarajar College participated.

An All India Workshop on Modernization of Physics Laboratory training in Colleges sponsored by the University Grants Commission was held from 11th to 14th March, 1985 under the auspices of the School of Physics of the University. The workshop was presided over by the Vice-Chancellor, Prof. J. Ramachandran and the inaugural address was delivered by Prof. Rais Ahmed, Vice-Chairman, University Grants Commission. The inaugural function was attended by about 200 students of M.Sc. and

B.Sc., (final) Physics classes from the local colleges. Sixteen participants in addition to the faculty members and M. Phil. scholars of the School of Physics participated as observers.

An one-day Seminar on "Energy, Environment and Natural Resources- An Inter-disciplinary picture" was held on 25.3.85 under the auspices of the School of Energy, Environment and Natural Resources of the University. It was inaugurated by Prof. N.Arumugam, Special Officer, Planning & Development of the University and attended by 55 participants.

An one-day Seminar on "Seventh Plan Proposals" was held on 29-3-85 under the auspices of the Dept. of Economics of the University. It was attended by 150 participants. The Key-note address was delivered by Dr. P. R. Gopinathan Nair, Prof. of Economics, University of Kerala.

A short-term training course on Hybridoma Technology sponsored by the National Biotechnology Board, Dept. of Science & Technology, Govt. of India was organised from April 15th to May 4th, 1985 under the auspices of the School of Biological Sciences. Fourteen participants from all over India attended the training programme. Dr. Francesco Sinigaglia from Switzerland, Dr. C. N. Paramasivan and Dr. Ramesh S. Paranjep from Madras attended the course as Guest Faculty. The DST released a total grant of Rs. 2,41,100/- for the training course.

A four-day UGC National seminar on "Gandhian Techniques for the liberation of the weaker sections" was held under the auspices of the Dept. of Gandhian Studies from 5th to 8th June, 1985. Prof. J. Ramachandran, Vice-Chancellor presided over the inaugural and valedictory functions. Dr. S. L. Malhotra, Professor and Head, Dept. of Gandhian Studies, Punjab University, Chandigarh delivered the key-note address. Dr. M. Aram, Vice-Chancellor, Gandhigram Rural University delivered the valedictory address. The seminar was attended by 40 outstation and 20 local participants.

A workshop on Science and Technology Entrepreneur's park (STEP) was held at Madurai Kamaraj University, Faculty Guest House on 5th and 6th August, 1985. Major Thiagarajan, Dept. of Science and Technology (DST) Government of India spoke on the scope of the workshop. About 30 participants, both industrialists and scientists, participated in the deliberations of the workshop. A few model projects which can be immediately taken in the STEP programme were presented by the Science Faculty of the University. The workshop was sponsored by the Dept. of Science & Technology, Government of India.

A workshop for preparation of study materials for the General Studies paper of the Preliminary part of I. A. S. and Competitive examination was conducted on Saturday, 17th August, 1985. Twenty six teachers from affiliated colleges and departments of the University who handled the Guidance classes, participated in the workshop. Prof. R. Kanagasabapathy, Convener, I. A. S. Committee delivered the key-note address.

The department of Education organised a two day Seminar on Higher Education on 3rd & 4th October, 1985 in the department premises. On the first day of the Seminar Dr. G. Subramania Pillai presented a paper on "Delinking Degrees From Jobs", and Dr. N. Muthiah presented a paper on "Converting Arts and Science Colleges into Vocational Institutions". On the second day, Dr. S. Mohan, presented a paper on "Accountability in Higher Education." Dr. K. Krishnan presented a paper on "Need of the Hour-Centralization Decentralization in Higher Education." Participants from various colleges, Universities attended the seminar and participated in the discussions.

The department of Political Science organised a meeting of U. S. Policy and Search for Peace on 29th October, 1985 at Sir. C.V. Raman Auditorium, Palkalainagar, Madurai-21. Mr. John, D. Stempel, American Consul General in South India at Madras delivered a speech on the theme. Prof. S. Subramanian, Professor & Head, Department of Political Science presided over the meeting. The staff, scholars, students and attended the others meeting.

The 51st Annual Conference of the Indian Academy of Sciences was held from 7th to 10th November, 1985 in the University. About 160 participants attended it. Eminent Scientists like Prof. C. N. R. Rao, Dr. S. Varadharajan, Dr. Yashpal, participated in the conference. A sum of Rs. 5000/- was contributed by the University as 'seed money' for organising it.

The Second International Symposium on Biomembranes: Structure, Biogenesis & Transport was organised in the School of Biological Sciences of the University during 11th to 14th December, 1985. Dr. Pushpa M. Bhargava, Director, Centre for Cellular and Molecular Biology, Hyderabad inaugurated the symposium and Prof. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University presided over the function. About 30 scientists from abroad and 70 from India participated in the symposium. This symposium provided an excellent opportunity for a good scientific interaction between Indian visiting scientists International Agencies like IUB (The International Union of Biochemistry), IUPAB, (International Union for Pure and

Applied Biophysics) and FAOB (Federation of Asian and Oceanic Biochemist), Indian Agencies like UGC, DST and ICMR sponsored and contributed to the organisation of the symposium.

An International Workshop on Organelles and Biomembranes was organised as a satellite activity of the International symposium on Biomembranes "Structure, Biogenesis & Transport" in the School of Biological Sciences, Madurai Kamaraj University during 1st to 25th December, 1985. The workshop was inaugurated by Prof. S. Krishnaswamy, Vice-Chancellor on 2nd December, 1985. A total of 12 participants including those from Thailand, Bangladesh, Afganistan and Iran participated in the workshop. Dr. Lester Packer (USA), Dr. Papa (Italy) Dr. Strasser (Germany), Dr. Jim Barber (UK), Dr. Richard Dhillley (USA), Dr. Govindjee (USA), Dr. Whitmarsh (USA), Dr. Anthony (UK) and Dr. Katyaro (BARC, India) Dr. C. Rajamanickam (India), Dr. J. Jayaraman (India) and Dr. Kulandaivelu (India) participated in the workshop as International Faculty. It was sponsored by DST, UNESCO and FERRO of USDA.

The group Monitoring workshop on Plant Physiology and Plant Biochemistry was held from 17th to 19th December 1985 in the School of Biological Sciences. It was inaugurated by Prof. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University, and attended by 65 Scientists including programme co-ordinators and young scientistst. Dr. P. J. Lavekare, Adviser, DST, Govt. of India was also present during the entire workshop. The Progress reports of the various schemes in the area of Plant Physiology and Plant Biochemistry were presented and evaluated during the workshop, which was sponsored by the DST, Government of India.

CHAPTER - VI

Finance

Accounts of the University for the year 1985-86.

1. Grants from the Government of Tamilnadu :

The Government of Tamilnadu sanctioned a sum of Rs. 27 lakhs towards Block Grant for the year 1985-'86 to be drawn in four equal instalments of Rs. 6.75 lakhs. Besides, the Government of Tamilnadu has also sanctioned the following grants :

	Rs.
1 Towards the reimbursement of expenditure incurred on the payment of DA, HRA and CCA to its staff for the years 1978-'80 and 1981-'82.	5,00,000
2 An advance grant towards the reimbursement of expenditure incurred on the payment of additional instalment of DA to the Teaching Staff for the year 1983-'84.	4,50,000
3 Additional instalment of DA to the Teaching Staff for the year 1983-'84	6,73,000
4 Towards reimbursement of expenditure incurred on payment of additional instalment of DA to the Non-teaching Staff for the year 1982-'83.	8,75,000
5 Grant to the University for providing infrastructural facilities for Research schemes funded by external agencies.	5,00,000
6 Reimbursement of expenditure incurred on payment of additional instalment of DA to the Non-teaching Staff for 1983-'84.	10,00,000
7 Advance grant towards reimbursement of expenditure incurred during 1983-'85 and 1985-'86 on payment of additional instalment of DA, HRA and CCA sanctioned after 1-4-1985 to the Teaching and Non-teaching Staff.	38,98,000

8 Grant for Tamil Academy.	14,084
9. Youth Welfare Grant for the year 1984-'85.	46,000

Other Grants from U. G. C. :

1 Summer Institutes and Seminars	76,474
2 J.R.F. - Direct Award	10,480
3 Research Project : Retired Teacher Scheme. Dr. John D.K. Sunder Singh	10,000
4 National Fellowship to Dr. M.K. Chandrasekharan	11,000
5 Faculty Improvement Programme	11,83,194
6 Financial Assistance to teachers	19,275

U.G.C. Schemes :

1 "Eukaryotic RNA Processing Enzymes and Regulation of Gene Expression " Dr. G. Shanmugam.	2,169
2 "Setting up a Biological Curriculum Development Centre	20,000
3 Fellowship and Contingencies	1,00,000
4 National Adult Education and Extension Programme	21,59,500
5 College Development Council	50,000
6 University Science and Instrumentation Centre.	1,00,000
7 "Scope for the Utilization of Caffeine and theophylline for pest control - A Bio- energetics approach." Dr. S. Mathavan.	39,800
8 "Synthesis of Oxygen hyterocycles having insecticidal and anti-fertility properties." Dr.P.V.Raman	15,000
9 "Development of Multi disciplinary teaching and training in Bio-Technology."	57,80,000
10 "Science and learning technology." Dr. J.K. Pillai	2,000
11 "Ultraviolet radiation induced physiological changes and its control in Higher Plants and Algae" Dr.G.Kulandaivelu	15,800
12 "Scope for application of Androgens for intensive mono-sex culture of <i>Tilapia mossambica</i> ."	44,500
13 "Translation of Thiagarajar Krithies from Telugu to Tamil and Malayalam" Thiru T.S. Giriprakash	10,000

Rs.

14	"Study of morphological evolution and development of land and water resources in Tambraparni river basin." Dr.M. Sambasiva Rao	17,400
15	"A new planning strategy for Dharmapuri District Dr. S. Jayachandran	9,550
16	"Geo-Economic Survey on city transport network : An Inter-disciplinary approach for city transport in Class I cities of Tamilnadu Dr. M. Krishnan	18,000
17	"An analysis of marketing facilities in Tamilnadu." Dr.K.S. Gopalakrishnan	18,400
18	"Study of Assembly and dis-assembly of Chloroplast" Dr. A. Gnanam.	35,000

C.S.I.R

1	Fellowship and Contingencies	7,18,577
2	"Sequential monitoring of fungicide mutagenecity in plant system" Dr. C.B.S.R. Sharma	7,130
3	"Identification and Characterization of Productive Cell antigens to Salmonellosis in mice." Dr. VR. Muthukkaruppan.	42,350
4	"Explant potentials in Coconut Cloning" Dr. D. Padmanabhan.	31,655
5	"Expression of Metallothionein in genes in Yeast." Dr. J. Jayaraman.	26,665
6	"Theoretical study of electronic structure of defects and impurities of semi-conductors and metallic compounds." Dr. K. Iyyakutty.	16,195
7	Newer uses of alkoxymethyl ethers organic Synthesis." Dr. P. V. Raman.	9,000

I.C.M.R.

1.	Fellowship to Thiru J.Murugesan.	10,450
2.	" to Selvi R.Jamuna	7,700
3.	" to Thiru Vaikundaraja	3,725
4.	" to Thiru Devandranath Sinha	6,300
5.	" to Thiru K. Sailendari	23,445
6.	" to Hazena Banu	4,445

	Rs.
7. "Use of recombinant DNA Technology for possible mass production of Biocide of bacili active against mosquito larvae". Dr. (Mrs.) Kunthala Jayaraman.	19,500
8. "Ecophysiological and Toxicological studies on the effects of biocides from bacillus species on non-target aquatic organism and insect predators of mosquito larvae". Dr.S.Mathavan.	35,700
9. "Studies on the humoral immune response in human leprosy. Dr.VR.Muthukkaruppan.	38,133
10. "Molecular Mechanism of indirect SOS induction". Dr.K.Dharmalingam	23,713
11. "Regulation of Gene expression during cardiac hypertrophy". Dr.C.Rajamanickam	34,012
12. "HLA in health and disease: Development of HLA Antriseria and their distribution to the recognised centres in India". Dr.RM.Pitchappan	32,143
13. "Nuclic acid binding proteins of Human Placenta" Dr. G.Shanmugam.	45,460
14. Cloning of DNA Segments from different strains of filarial parasits towards the construction of Gene Banks for the possible use in immune therapacitics and diagnostics purposes in filarial control programme Dr. (Mrs)Kunthala Jayaraman.	29,500

I.C.S.S.R.

1. "Nature of Research undertaken in social Sciences and the diffusion of its findings" Dr. Subramonia Pillai.	2,666
2. "A Study of the cost of production yield gap and economic efficiency in Indian Agriculture". A case study of irrigated cotton in Madurai District. Dr. G. Subramaniyan.	19,550

I. C. A. R.

1 "Fellowship to Thiru A. P. Lipton	6,500
2 "Isolation and mass cultivation of mycorrhizal fungi associated with lguminous plants" Thiru D. P. Gunasekharan	15,200
3 "Plasmids Biological Genetic Engineering Studies on "Bio-fertilizer in paddy fields."	40,200
4 Bio-Energetics and production of revarine prawn macroprachium". Dr. T. J. Pandian and Dr. S. Mathavan.	96,000

	Rs
D. S. T.	
1 Bio-Mass..	1,00,000
2 "Regulation of Proliferation of Normal and Neo-Plastic Cells in Culture." Dr. G. Shanmugam	60,000
3 "Financial support for all-India Cordinated project on Guayule." Dr. A. Gnanam.	43,000
4 "Molecular Cloning and sequencing the genes coding for restriction and anti-restriction proteins in E. Coli and Shigella dysenterial." Dr. K. Dharmalingam.	1,50,000
5 "Setting up a national facility of chronocubicles Complex with isolation facilities for experiments of human in the unit of Neurobiology and Mechanisms of behaviour." Dr. M. K. Chandrasekaran	3,00,000
6 Studies on the HLA system with special reference to distribution genetics and disease association." Dr. RM. Pitchappan.	1,00,000
7 "Gene expression during cardiac hypertrophy Molecular Cloning of Myosin heavy chain Genes". Dr. C. Rajamanickam.	50,000
8 Augmentation of Bio-Gas solar system.	2,50,000
9 Regulation of transcription and SOS induction in E. coli. Dr. R. Jayaraman.	30,000
10 Workshop on Science and Technology Entrepreneur park.	30,000
11 NBTB Programme.	3,100
12 "Large batch production and processing of Biocide active against mosquito larvae."	85,000
13 Travel grant to Selvi Thomas.	11,699
14 Symposium on Odonatology.	10,000
15. "Winter School research techniques in UV-B radiation effects and mechanism." Dr. G. Kulandaivelu.	1,00,000
16 "Group Monitoring workshop on DST funded projects in plants	90,000
17 2nd International Symposium on Bio-membrane	50,000
D.O.E.	
1. "An Environment impact-Western Ghats region in Tamilnadu". Dr.P.Kailash Paliwal.	1,12,000
2. "Ecological studies of grazing land eco-system of Eastern ghats. Dr.P.Kailash Pailwal.	17,600
3. Department of Ocean Development.	5,000

Rs.

D.A.E.

- | | |
|--|--------|
| 1. Mechanism of Immune tolerance to heterologous Erythrocytes in mice. | 13,466 |
|--|--------|

J.R.F.

7,466

Foreign Agency

- | | |
|---------------------------------------|----------|
| 1 I.A.E.A. Dr.J Jayaraman | 37,425 |
| 2. I.F.S. Dr.S.Mathavan | 48,462 |
| 3. W.H.O. Dr.(Mrs.)Kunthala Jayaraman | 72,900 |
| 4. P.L.480 - USDA - Dr.A.Gnanam | 1,07,000 |
| 5. USDA - Dr. C Rajamanickam | 1,00,000 |
| 6. USDA - Dr (Mrs)Kunthala Jayaraman | 51,000 |
| 7. N.A.B.A.R.D. | 38,500 |

Others:

- | | |
|---|----------|
| 1. Technotran | 10,000 |
| 2. Hindustan Lever Research Foundation | 24,478 |
| 3. The marine products exports development authority, Cochin. | 1,60,000 |
| 4. Sakthi Charities. | 20,000 |

Scholarships:

- | | |
|--|----------|
| 1.. Backward Class Scholarship | 1,37,497 |
| 2. National Scholarship Scheme | 13,880 |
| 3. National Loan Scholarship Scheme | 10,650 |
| 4. Kallar Reclamation Scholarship | 7,222 |
| 5. Physically Handicapped Scholarship | 3,720 |
| 6. Adi - Dravidar Welfare Scholarship | 1,16,660 |
| 7. Adi - Dravidar Welfare loan scholarship | 83,500 |
| 8 Scheme for Higher Mathematics. | 11,600 |

Acknowledgement

During the year under report, the University has made significant progress in all spheres of its activities. The Syndicate wishes to express its appreciation to the members of the Faculty, the Officers and the staff of the University for the excellent work done and the co-operation extended during the year.

But for the co-operation of the Management, the Principals and the staff and students of various affiliated colleges and institutions of the University, the all-round progress would not have been possible, and the Syndicate wishes to record its grateful thanks to all for their contribution towards the progress and development of the Madurai Kamaraj University during the year.

