



# **MADURAI KAMARAJUNIVERSITY**

**(Univeristy with Potential for Excellence)**

## **SCHOOL OF MATHEMATICS**

### **MADURAI**



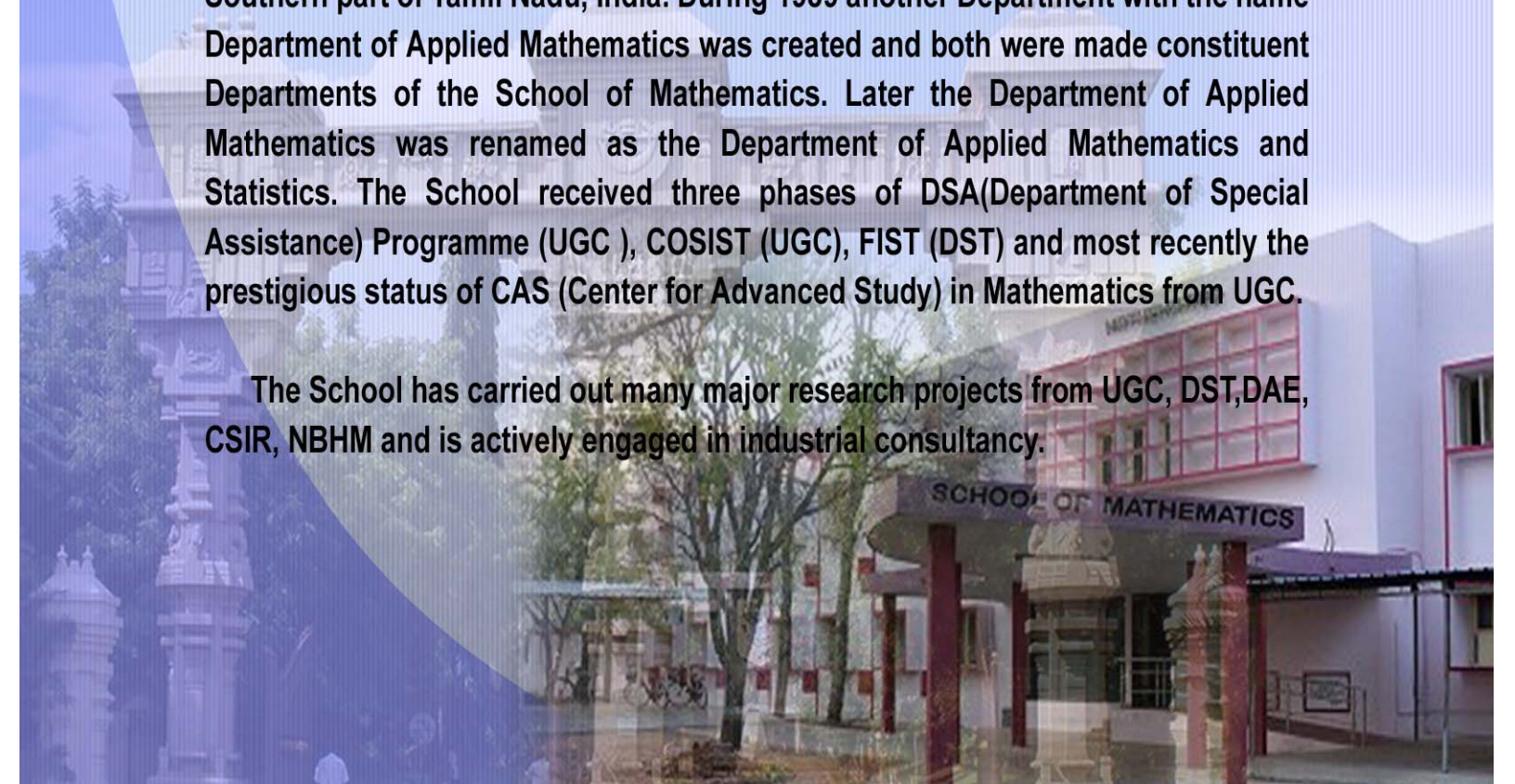
#### **Information Brochure of the School**

#### **Part I: Brief Profile of the School**

Initially the present School of Mathematics was the Post graduate extension center of the Madras University started at Madurai in 1958. The Department of Mathematics was formed in 1966 with Prof.M.Venkatraman as the first Head of the Department. He was instrumental in shaping the Department's activities and its growth. Under the leadership, the Department bagged many prestigious schemes such as COSIP form UGC (University Grants Commission). Prof.M.H.Stone was an Honorary Professor of this Department. Several distinguished Mathematicians have served and visited the School. Indeed it was the Department of Mathematics which introduced the concept of M.Phil. as a bridge course between Post graduate programme and Research programme. This was later adopted by UGC as a Country wide model programme for not only Mathematics but also for all other Disciplines.

The Department continues its contribution both to academic and research activities and became the nodal center for higher education in Mathematics in the Southern part of Tamil Nadu, India. During 1989 another Department with the name Department of Applied Mathematics was created and both were made constituent Departments of the School of Mathematics. Later the Department of Applied Mathematics was renamed as the Department of Applied Mathematics and Statistics. The School received three phases of DSA(Department of Special Assistance) Programme (UGC ), COSIST (UGC), FIST (DST) and most recently the prestigious status of CAS (Center for Advanced Study) in Mathematics from UGC.

The School has carried out many major research projects from UGC, DST,DAE, CSIR, NBHM and is actively engaged in industrial consultancy.







## Part II: Faculty Profile

### Department of Mathematics

S. No.	Name & Designation		No. of Research Publications	No. of Ph.D. Awarded	Specialized Area
1	<b>Dr.M.Lellis Thivagar</b> M.Sc., Ph.D. <b>Chairperson</b> Professor & Head School of Mathematics Email : mlthivagar@yahoo.co.in Cell : 9443805959		224	21	General Topology, Nano Topology
2	<b>Dr.R.Asokan</b> M.Sc.,M.Phil.,Ph.D. Associate Professor Dept. of Mathematics Email: rasoka_mku@yahoo.co.in Cell : 9791967592		30	07	Partial Differential Equations
3	<b>Dr.S.Muralisankar,</b> M.Sc.,M.Phil.,Ph.D. Associate Professor Dept. of Mathematics Email: muralimku@gmail.com Cell : 9444802628		30	04	Fixed point theory, Functional fuzzy differential equations
4	<b>Dr.S.Lalithambigai</b> M.Sc.,Ph.D. Assistant Professor Dept. of Mathematics Email: slalithamath@gmail.com Cell : 9994807996		09	-	Best approximation in Banach spaces and Geometry of Banach spaces
5	<b>Dr.A.Shophia Lawrence</b> M.Sc.,M.Phil., Ph.D. Assistant Professor Dept. of Mathematics Email: shophialawrence@gmail.com Cell: 9486040102		12	02	Stochastic Process

### Department of Applied Mathematics & Statistics

S. No.	Name & Designation		No. of Research Publications	No. of Ph.D. Awarded	Specialized Area
1	<b>Dr.B.Mayilvaganan</b> M.Sc.,Ph.D. Professor & Head Dept. of Applied Mathematics & Statistics Email: vkbm66@gmail.com Cell: 9787054717		37	07	Differential Equation, Mathematical Modelling
2	<b>Dr.B.Sivakumar</b> M.Sc.,Ph.D. Assistant Professor Dept. of Applied Mathematics & Statistics Email: sivabkumar@yahoo.com Cell: 9894227177		45	06	Applied Probability Modelling in Inventory and Queuing Systems



### Part III: Course Offered

- **M.Sc. Mathematics**
- **M.Phil. Mathematics**
- **Ph.D. Mathematics**

### Part IV: Ongoing Projects

S. No.	Name of the Principal Investigator	Name of the Project	Duration of the Project	Grant Received Rs.	Name of the funding Agency
1	Dr.B.Sivakumar	Stochastic analysis of server vacation models in inventory systems	2013-2017	8.81 Lakhs	UGC, New Delhi
2	Dr.B.Sivakumar	Mathematical Modelling and Analysis of Stochastic Multi-Server Inventory Systems	2017-2020	2.1 Lakhs	NBHM, Mumbai
3	Dr.A.Shophia Lawrence	Modelling and analysis of stochastic inventory systems with replaceable items	2014-2017	9,84,000	NBHM, Mumbai

### Visits Abroad

S.No	Name of the Faculty	Name of the University
1	Dr.M.Lellis Thivagar	<ul style="list-style-type: none"> <li>• New Jersey City University, Jersey City, USA (2017)</li> <li>• University of Leicester, Leicester, England (2016)</li> <li>• University of Messina, Messina, Italy (2015)</li> <li>• International Islamic University, Malaysia (2014)</li> <li>• Asian Institute of Technology, Bangkok, Thailand (2014, 2015, 2016, 2017)</li> <li>• Abu Dhabi University, Abu Dhabi (2013)</li> <li>• Shimane University, Matsue, Japan (2013)</li> <li>• Kuwait University-Kuwait (2012, 2015)</li> <li>• SS Cyril Methodius University, Skopje, Macedonia (2012)</li> </ul>
2	Dr.S.Muralisankar	Kyungham University, Busan, and National University Masan, South Korea (2004)
3	Dr.B.Sivakumar	Kuwait University-Kuwait (2015)



## Part V: Major Events

### Organised Conferences/Seminar/Workshops/Summer or Winter School

S.No	Name of the Faculty	Conference/Seminar/Workshop
1	<b>Dr.M.Lellis Thivagar</b>	1. National Seminar on “Application of Modern Topology” held at School of Mathematics, Madurai Kamaraj University, Madurai on 24.01.2012. 2. UGC – Refresher Course in Mathematics on Advanced Analysis and its Applications held at School of Mathematics, Madurai Kamaraj University, Madurai 07.02.2012 to 27.02.2012. 3. UGC – Refresher Course in Mathematics on Advances in Algebra and analysis held at School of Mathematics, Madurai Kamaraj University, Madurai 07.11.2013 to 27.11.2013. 4. International Conference on Mathematical Sciences -2014 held at School of Mathematics, Madurai Kamaraj University, Madurai from 21.08.2014 to 23.08.2014. 5. National Conference on Ramanujan’s Contributions and Recent Trends in Mathematics held at School of Mathematics, Madurai Kamaraj University from 21.12.2015 to 23.12.2015. 6. Workshop on “Quality Enhancement in Mathematics” held at School of Mathematics, Madurai Kamaraj University, Madurai on 02.09.2016
2	<b>Dr.B.Mayilvaganan</b>	Refresher Course conducted for teachers at the School of Mathematics, Madurai Kamaraj University from 25.11.2015 to 15.12.2015.
3	<b>Dr.R.Asokan</b>	National Seminar on Theoretical Advances in Differential Equation and Applications, School of Mathematics, Madurai Kamaraj University, Madurai on 23.08.2013
4	<b>Dr.S.Muralisankar</b>	UGC – Refresher Course in Mathematics on Recent Trends in Mathematics School of Mathematics, Madurai Kamaraj University, Madurai 2015
5	<b>Dr.B.Sivakumar</b>	Advanced Training in Mathematics : Group Theory and Ring Theory held at School of Mathematics, Madurai Kamaraj University, Madurai from 04.01.2016 to 09.01.2016





## Students attended the Winter / Summer School (2016-2017)

S.No	Students Name	Programme Name	University
1	<b>Hemalatha Mohanarangan II M.Sc. Mathematics</b>	Level 3 in Training Programme in Mathematics 2017 from 22.05.2017 to 17.06.2017	National Institute of Science Education and Research, Bhubaneswar.
2	<b>S.Sundara Vadivoo II M.Sc. Mathematics</b>	Mathematics Training and Talent Search Programme from 22.05.2017 to 17.06.2017	Regional Institute of Education, Mysore
3	<b>L.Iniya II M.Sc. Mathematics</b>	9 <sup>th</sup> Summer Training Programme in Mathematics from 10.05.2017 to 30.05.2017	Ramanujan Institute of Advanced Study in Mathematics, University of Madras, Chennai
4	<b>G.Ishwarya II M.Sc. Mathematics</b>	Summer Training Programme in Mathematics from 26.05.2017 to 15.06.2017	The Academy of Sciences, Department of Mathematics, Anna University, Chennai
5	<b>P.Karthik Saravanan II M.Sc. Mathematics</b>	Summer Training Programme in Mathematics from 26.05.2017 to 15.06.2017	The Academy of Sciences, Department of Mathematics, Anna University, Chennai

## ● Distinguished Alumni

- Professor V. Kannan, Former Pro-Chancellor, University of Hyderabad, Hyderabad.
- Professor K.M.Rangasamy, University of Colorado, USA
- Professor P. Kanniappan, Former Vice-Chancellor of Alagappa University, Karaikudi
- Professor Thiruvikraman, Former Professor & Head, Cochin University of Science and Technology, Kochi, Kerala.
- Professor S. Arumugam, Former Registrar, M. S. University, Tirunelveli.
- Professor Suresh Singh, Professor and Head, University of Kerala, Thiruvananthapuram.

The students are encouraged and engaged in activities to support various programs of the School under UGC-CAS and DST-PURSE (2016-2017)





## ● Awareness Programme

### Village Adoption Programme

**Adopted Village: Paluthupatti, Karumathur (Taluk), Madurai**



School of Mathematics at Madurai Kamaraj University towards green India...

In response to the call of Prime Minister's green revolution on 14<sup>th</sup> September 2017 by the guidance of Hon'ble Vice-Chancellor Prof.Dr.P.P.Chellathurai, the School of Mathematics of Madurai Kamaraj University adopted the village called Paluthupatti near Karumathur under Usilampatti taluk. Along with P.G and research scholars the staff members under the leadership of Dr.M.Lellis Thivagar cleaned the village and awareness programme on health and hygiene especially on the side effects and ill health of open air toilets. In response to Prime Minister's green India more than one thousand saplings were planted in and around the village. As a result many villagers were inspired and came forward to take saplings to plant around their house promised to protect and bring up the plants. All the students actively participated in this programme and eagerly look forward for such inspiring and participatory activities. The villagers expressed that they face acute drinking water problems and consequently many health issues due to the salty water they use now. The faculty members Dr.B. Mayilvaganan, Dr.R.Asokan, Village Ex-ward member Mr. Muniyandi and many people from the village participated in this event to make it a successful one.

## Part VI: Infrastructural Facilities

### 1. Physical Facilities

- i. A two-floor building with separate halls for Library, Reading halls, SMART Class room, two computer labs with 37 nodes and one server.
- ii. Two LCD Projectors, one Interactive Board, two OHPs, one document camera.

### 2. Library as a Learning Resource

- i. A full-fledged Library containing more than 20,000 books. With generous funds from NBHM a good repository of Journals (Since 1991) has been created.
- ii. Online access of journals available.

### 3. IT Infrastructure

All the computers are networked with access to UGC-INFLIBNET and online journals.





## Part VII: Awards and Achievements (International / National)

S.No	Name of the Faculty	Awards / Honours / Recognitions
1	<b>Dr.M.Lellis Thivagar</b>	<ol style="list-style-type: none"> <li><b>Achievers Award 2017 for Mathematics</b> Given by Ratna Prasad Multidisciplinary Research &amp; Educational Society, INDIA</li> <li><b>Tamil Nadu Scientist Award - 2008 for Mathematical Sciences</b> Given by Tamil Nadu State Council for Science and Technology, Government of Tamil Nadu.</li> <li><b>Best Professor Award in Mathematics 2016</b> Given by Pearl Foundation for Educational Excellence.</li> <li><b>IMRF Excellence Award 2014</b> for Mathematics Given by International Multidisciplinary Research Foundation, Thailand Chapter , Thailand.</li> <li><b>Eminent Mathematician Award 2014</b> Given by Jeppiaar Engineering College, Chennai for the year 2014</li> </ol>
2	<b>Dr.S.Muralisankar</b>	Senior Research Fellow, CSIR, New Delhi
3	<b>Dr.B.Sivakumar</b>	Fast Track Young Scientist award from SERC-DST, 2008
4	<b>Dr.S.Lalithambigai</b>	Young Women Scientist from DST Fast Track
5	<b>Dr.A.Shophia Lawrence</b>	DST-WOS-A (Women Scientist Award)



### The success story of the students' performance in the National level Test

Examination Passed (2012-2017)	Number of Students
CSIR-UGC NET	6
SET	22
GATE	7
NBHM	4
TET	10

## Part VIII: Extension Activities

Mathematical skills awareness program to Rural school students was conducted in April, 2007.

Curriculum development at P.G. Level in Mathematics - National symposium was conducted on March 1-2, 2007.

School of Mathematics has adopted the Village Paluthupatti, Usilampatti (Taluk)

**Dr. M. LELLIS THIVAGAR**

Chairperson

Professor & Head

School of Mathematics

Madurai Kamaraj University

Madurai – 625 021, INDIA

E-mail : mlthivagar@yahoo.co.in

Cell : 9443805959

Phone : 0452-2458471-323, 350 (Office)