

**PONDICHERY UNIVERSITY**  
**PROFILE OF THE DEPARTMENT**  
**(FOR REACCREDITATION PURPOSE OF NAAC)**

(Wherever applicable select the closest option and strike out the others which are not applicable.  
 If something is Not Applicable write NA. Please use Separate Sheets wherever necessary)  
**(Information shall be given for the period from July 2004 to June 2009)**

**GENERAL INFORMATION**

1. Name of the Department		<b>Department of Mathematics</b>									
2. Location of Institution		R.V.Nagar, Kalapet, Puducherry – 605 014									
3. Name and Address of Institution		Department of Mathematics, Pondicherry University, Puducherry – 605 014									
Web/URL Home page		www.pondiuni.edu.in/dept_pages/dept_maths.htm									
Email:		head.mat@pondiuni.edu.in									
4. Year (Date if available) of Establishment		28.11.1986									
5. Built-up Area in Sq. Ft.		12,000 sq.ft.									
6. Institutional Autonomy		The Department has academic autonomy for framing of syllabus and conduct of examinations									
7. Total Student Strength of the Department (2009)		128									
8. Programs Offered:											
8.(i) Post-Graduate: Mathematics (Please specify courses. If necessary use additional sheets)											
Total Intake	Total Student Strength		Students from Pondicherry University		Students from Other Universities		Students from Other States		NRI Students		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
I Yr	25	36	6	24	19	12	19	14			
II yr	17	23	5	19	12	4	12	5			
MPhil	9	2	4	1	5	1	9	1	-	-	
Total	51	61	15	44	36	17	40	20			
8.(ii) Ph.D.: Mathematics (Please specify subjects. If necessary use additional sheets)											
Total Intake	Total Student Strength		Students from Pondicherry University		Students from Other Universities		Students from Other States		NRI Students		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
16	16	-	10	-	6	-	12	-	-	-	
9. Number of Permanent Teaching Faculty		Male: 7 (1 on EOL)		Female: 1		Total: 8					
10. Number of Teaching Posts Sanctioned		Professor: 6		Lecturer: 5		Others (Please specify): -		Reader: 3 Lab. Assistant: Nil			
11. Number of Teaching Posts Occupied		Professor: 4		Reader: 2		Lecturer: 2		Others (Please specify): 5 (Guest Faculty)			

13. List of Technical Staff:							
Sl. No.	Name	Sex	Date of Birth	Date of Super-annuation	Technical	Designation	Highest Qualification
-	-	-	-	-	-	-	-
14. Number of Administrative Staff					Clerical: Male: 1 Female: 0 Total: 1 Attenders: Male: 1 Female: 0 Total: 1 Peons: Male: 0 Female: 0 Total: 0		
15. Whether the Institution has been assessed and accredited by any Agency like NAAC/NBA/AICTE/DEC/etc.?					Assessed and accredited by NAAC		
16. What are the admission policies in your institution? (Please strike out whichever is not applicable)							
(i) Admission based on Marks in Qualifying exam alone : (ii) Admission based on (i) and Entrance exam (University /State / National level): <b>Entrance exam by University</b> (iii) Admission based on (i) and / or (ii) and / or (iii) and / or Interview / Group Discussion: <b>Entrance exam by University</b> (iv) Counselling for students done before Admission: <b>Yes</b> (v) Counselling for students done after Admission: <b>Yes</b> (vi) Percentage of Reservations available for Admission under categories SC-2 + 1/ST-1+1/OBC /Sports-1/NRI-2/ Women / Category Percentage Internal students /Physically Challenged /Domicile of State / Other State students / Wards of employees, etc. <b>SC: 15%, ST:7.5%, OBC: 27%, PH:3%</b> (vii) Any others (please specify): <b>Nil</b>							
17. Is there any review of the Admission Policy?					University bodies review Admission Policy		
18. When was the Admission Policy reviewed of late?					March, 2009		
19. How are the courses / programmes advertised?					National Newspapers, University Web Site and circulation of Information Brochures		
20. Number of Working days per semester?					90 days		
21. Number of Teaching days per semester?					90 days		
22. Are there any policy guidelines for curriculum revision?					The Academic Council issues policy guidelines		
23. Is there any academic body for design and / or review of curriculum?					UG Board of Studies in Mathematics PG Board of Studies in Mathematics		

24. When was the curriculum last revised?	PG: 04.05.2009 UG: 03.07.2009
25. Are the curricula revised for all programmes simultaneously or partially?	Simultaneously
26. Does the institution have credit transfer system?	There is a provision.
27. Methods of Instruction followed	Lecture, Theory, Practical, Seminar, Quiz
28. Exam. System followed	Internal: 40%, External: 60%
29. Is there Internal Assessment? If yes, what percentage of the total is this and in what faculty?	Internal: 40%, External: 60%
30. Is there external valuation?	Yes.
31. Has the institution introduced any innovations in exam?	Yes
32. Are the exams held as per schedule? If not, give reasons.	Yes
33. Are the results declared as per schedule? If not, give reasons.	Yes
34. Grants received from various sources	<p><b>UGC XI Plan Grant:</b>  2007-08: Rs. 65,000/-  2008-09: Rs. 2,00,000/-</p> <p><b>UGC OBC Special Grant for Equipments:</b> 2008-09: Rs.25,00,000/-</p> <p><b>UGC DRS Grant for Infrastructure:</b>  2008-09: Rs.10,00,000/-  2009-10: Rs.20,00,000/-</p> <p><b>NBHM Book Grant, Department of Atomic Energy, Govt. of India</b>  2003-04 &amp; 2004-05: Rs. 5,30,000/-  2006-07: Rs. 1,74,126/-  2007-08: Rs. 5,50,000/-  2008-09: Rs. 7,50,000/-</p>

35. Fee structure per annum:

**M Sc. Mathematics**

1. Tuition Fee (Per Credits Rs.30) x 72	Rs 2,160.00
2. Registration Fee	Rs 100.00
3. Matriculation Fee	Rs. 50.00
4. Recognition Fee	Rs. 200.00
5. Identity Card Fee	Rs. 25.00
6. Sports Fee (per semester Rs.50)x4	Rs 200.00
7. Medical Examination Fee (per annum Rs.50)x2	Rs 100.00
8. Library Fund (per semester Rs.200)x4	Rs 800.00
9. Laboratory Fees	Rs. 200.00
10. Internet Fund (Per Semester Rs.100)x4	Rs 400.00
11. University Development Fund	Rs. 500.00
12. Students Welfare Fund (per annum Rs.100)x2	Rs 200.00
13. Alumni Association Fund	Rs. 100.00
14. Group Medical Insurance (per annum Rs.271)x2	Rs 542.00
15. Examinations Fee (per Credits Rs.16)x72	Rs 1,152.00
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Total:	Rs.6,729.00 for 2 years
Average Fee per annum:	Rs. 3,365/-

**M.Phil. Mathematics**

1. Tuition Fee (Per Credits Rs.50) x 36	Rs1,800.00
2. Registration Fee	Rs 100.00
3. Matriculation Fee	Rs. 50.00
4. Recognition Fee	Rs. 200.00
5. Identity Card Fee	Rs. 25.00
6. Sports Fee (per semester Rs.50)x2	Rs 100.00
7. Medical Examination Fee (per annum Rs.50)	Rs 50.00
8. Library Fund (per semester Rs.300)x2	Rs 600.00
9. Internet Fund (Per Semester Rs.150)x2	Rs 300.00
10. University Development Fund	Rs. 500.00
11. Students Welfare Fund (per annum Rs.100)	Rs 100.00
12. Alumni Association Fund	Rs. 100.00
13. Group Medical Insurance (per annum Rs.271)	Rs 271.00
14. Examinations Fee (per Credits Rs.16)x72	Rs 576.00
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Total:	Rs.4,772.00

## Ph.D. Mathematics

1. Research Fee (Per Semester Rs.1200) x 2	Rs 2,400.00
2. Registration Fee	Rs 100.00
3. Matriculation Fee	Rs. 50.00
4. Recognition Fee	Rs. 200.00
5. Identity Card Fee	Rs. 25.00
6. Sports Fee (per semester Rs.50)x2	Rs 100.00
7. Medical Examination Fee (per annum Rs.50)	Rs 50.00
8. Library Fund (per semester Rs.600)x2	Rs 1,200.00
9. Internet Fund (Per Semester Rs.250)x2	Rs 500.00
10. University Development Fund	Rs. 500.00
11. Students Welfare Fund (per annum Rs.100)	Rs 100.00
12. Alumni Association Fund	Rs. 100.00
13. Group Medical Insurance (per annum Rs.432)	Rs 432.00
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Total:	Rs.5,757.00

### GENERAL AND INFRASTRUCTURAL FACILITIES

36. Does the Institution have Dept. Libraries? Are these connected with the main Library?	The School has plans to establish a Library for all the 3 Departments
37. Area of the Library in Sq. Ft.	-
38. Number of Books in the Library Number of Text books in the Library Number of Reference books in Library Number of Audio cassettes Number of Video cassettes Number of CD ROMS	
39. Number of Books purchased last year by Library	199 (Mathematics)
40. Is there a Computer Laboratory?	Yes
41. Area of the Computer Laboratory in Sq. Ft.	1,400 sq.ft.
42. Number of Computers in the Institution	72
43. Number of Computers Available for use by Students	60
44. Number of Computers Available for Staff	12
45. Is the Administration of the Institution computerized?	yes
46. Does the Institution have an Auditorium?	Seminar Hall (A/C) is available with a seating capacity of 100 and Electronic Board System (Smart Class Room)
47. Does the Institution have Canteen facilities?	Available
48. Does the Institution have a Student Centre?	No.
49. Does the Institution have facilities for Indoor Games / Reading Room / etc. ?	Reading Room available
50. Number of Class Rooms in the Institution Number of Laboratories Number of Reading Rooms Number of Staff Rooms Number of Common Rooms Number of Rest Rooms	3 1 1 8 1 1 (For women)

## RESEARCH AND DEVELOPMENT

51. Are the Faculty Members Active in Research?					Yes		
52. Research Projects Completed during last 5 years with Details:							
Name of the Project	Name of the Principal Investigator	Funding Agency	Thrust Area	Total Grant Rs.	Duration with Years	Number of Publications under the Research Project	Number of Patents, if any.
“Extremal Structures in Banach Spaces”	Dr.V.Indumathi	DST-NSF (Indo-US)	Functional Analysis	5,35,000/-	3 years 2004-2007		-
“Algebraic Structures in Continuous and Discrete Systems”	Dr.K.M.Tamizhmani	NBHM	Integrable Systems	7,09,650/-			-

53. Ongoing Research Projects, if any, with Details:  
 (Please use separate sheet if necessary)

Name of the Project	Name of the Principal Investigator	Funding Agency	Total Grant	Duration with Years	Number of Publications under the Research Project	Number of Patents, if any.

54. Has the Institution organized any Research Meetings During the last 5 years? Yes



55. Details of Research Meeting, if any, organized during last 5 years.

(Please give separate list with full details, wherever necessary)

Name of the Meeting	Level (National / International)	Type of Meeting (Seminar/ Workshop/ Conference/ Symposia/ Other (specify))	Number of Persons who attended (Male: Female: Total: )	Dates of the Meeting
Conference in Mathematics and Statistics	National	Conference		30 <sup>th</sup> and 31 <sup>st</sup> October 2006
Seminar on Algebra and Analysis	National	Seminar		14 March 2008
CIMPA School on Discrete Integrable Systems	International	Workshop		2-14 February 2003
DST – SERC School on Non-Linear Dynamics	National	Workshop		4-24 January 2006
Lecture workshop Supported by Indian Academy of Sciences, Bangalore	National	Workshop		4-6 April 2008
DST sponsored Training Program in Mathematics 2008 (TPM-08)		Summer Institute		9-28 June 2008
Graph Theory, Fuzzy Sets and Statistics	National	Refresher Course		17.11.05 – 7.12.05
Topics in Analysis	National	Refresher Course		6-26 October 2006
Advances in Pure and Applied Mathematics	National	Refresher Course		5-25 December 2007
Mathematics and Statistics	National	Refresher Course		November 21 <sup>st</sup> – December 11 <sup>th</sup> , 2008

56. Has the Department Participated in any Special Schemes like UGC DRS / DSA / COSIP / ASIST / DST FIST / DBT , others. (Please Specify).	The UGC has selected the Department for Special Assistance Programme (SAP) Phase I (2009-2014) Grant:Rs. 31,50,000 + 1 Project Fellow
57. Has the Institution introduced any Innovations in Teaching (Please give details)	A softcore course on “Laboratory Practicals in Mathematics” has been introduced for M.Sc and M.Phil Mathematics programmes.  New softcore courses introduced in M.Sc and M.Phil Mathematics

### INSTITUTIONAL / DEPARTMENTAL INFORMATION

58. Annual Budget of the Institution / Department during last 5 years.	<p><b>Maintenance Grant (Non-Plan)</b>  2004-2005: Rs. 56,000  2005-2006: Rs.  2006-2007: Rs. 1,60,000  2007-2008: Rs. 1,65,000  2008-2009: Rs.</p> <p><b>Fellowships:</b>  2006-2007: Rs. 2,23,000  2007-2008: Rs. 3,70,000  2008-2009: Rs. 3,36,000</p> <p><b>Tuition Fee:</b>  2006-2007: Rs. 70,000  2007-2008: Rs. 60,000  2008-2009: Rs. 22,500</p> <p><b>Freeship:</b>  2006-2007: Rs. 14,400  2007-2008: Rs. 12,600  2008-2009: Rs. 4,800</p>
59. Research Funds per Faculty Member during last 5 years	
60. Ratio of Students to Faculty during last 5 years	2004-2005: 12:1 2005-2006: 11:1 2006-2007: 10:1 2007-2008: 10:1 2008-2009: 12:1
61. Ratio of Number of Applications to Available Intake during last 5 years	2004-2005: 4:1 2005-2006: 5:1 2006-2007: 6:1 2007-2008: 5:1 2008-2009: 9:1

62. Ratio of Number of Students Appearing for Exam. to Number of Successful Candidates during last 5 years (Final exam. Only)	M.Sc: 2004-2005: 79% 2005-2006: 92% 2006-2007: 91% 2007-2008: 90% 2008-2009: 87% M.Phil: 2004-2005: 100% 2005-2006: 100% 2006-2007: 100% 2007-2008: 100% 2008-2009: 100%
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63. Number of Students Admitted to Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total		
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Total
M.Sc	04-05											31	7	38
M.Sc	05-06											32	6	38
M.Sc	06-07											30	2	32
M.Sc	07-08											33	4	37
M.Sc	08-09											26	17	43
M.Phil	04-05											-	3	3
M.Phil	05-06											3	3	6
M.Phil	06-07											6	1	7
M.Phil	07-08											4	3	7
M.Phil	08-09											8	3	11

64. Number of Student Drop-outs in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total		
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Total
M.Sc	04-05											6	1	7
M.Sc	05-06											Nil	2	2
M.Sc	06-07											2	2	4
M.Sc	07-08											1	1	2
M.Sc	08-09											2	2	4
M.Phil	04-05											Nil	Nil	Nil
M.Phil	05-06											Nil	Nil	Nil
M.Phil	06-07											Nil	Nil	Nil
M.Phil	07-08											Nil	Nil	Nil
M.Phil	08-09											Nil	Nil	Nil

65. Number of Students who Appeared for Final Exam. in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total		
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Total
M.Sc	04-05													32
M.Sc	05-06													36
M.Sc	06-07													37
M.Sc	07-08													31
M.Sc	08-09													39
M.Phil	04-05													3
M.Phil	05-06													6
M.Phil	06-07													7
M.Phil	07-08													7
M.Phil	08-09													11

66. Number of Students who Passed Final Exam. in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total		
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Total
M.Sc	04-05													28
M.Sc	05-06													27
M.Sc	06-07													36
M.Sc	07-08													28
M.Sc	08-09													34
M.Phil	04-05													3
M.Phil	05-06													6
M.Phil	06-07													7
M.Phil	07-08													7
M.Phil	08-09													11

67. Number of Students who Secured University Ranks (please specify) in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total		
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Total
M.Sc	04-05													
M.Sc	05-06													
M.Sc	06-07													
M.Sc	07-08													
M.Sc	08-09													
M.Phil	04-05													
M.Phil	05-06													
M.Phil	06-07													
M.Phil	07-08													
M.Phil	08-09													

68. Number of Students who won Recognitions in Various Fields (Academic / Cultural / Sports, etcetera (please specify) in Various Programs (UG /PG / Certificate/ Diploma Courses) during the last 5 years

Program	Year	General		SC		ST		Cat. 1		OBC		Total		Total
		Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	
M.Sc	04-05													
M.Sc	05-06													
M.Sc	06-07													
M.Sc	07-08													
M.Sc	08-09													
M.Phil	04-05													
M.Phil	05-06													
M.Phil	06-07													
M.Phil	07-08													
M.Phil	08-09													

69. Any Other Information		
70. Contact Information of Institution / Department		
Name of Contact Person	Dr.A.M.S. Ramasamy	
Address for Communication	Professor & Head, Department of Mathematics	
FAX Numbers	(0413) 2655255	
Telephone Numbers (please include codes)	(0413) 2654388	
E-Mails	<a href="mailto:head.mat@pondiuni.edu.in">head.mat@pondiuni.edu.in</a> <a href="mailto:ramasamy.mat@pondiuni.edu.in">ramasamy.mat@pondiuni.edu.in</a>	

79. Any efforts made by the Department to promote Campus Recruitment - The Department has jointly worked with the University Placement Officer to secure placement of M.Sc. and M.Phil. students through Campus Recruitment.

80. Healthy practices of the Department.

Problem solving sessions

Seminars

Lectures by Visiting Faculty (National and foreign)

Students' Counselling

Career Guidance

Collaborative Research at National and International levels

## ADDITIONAL INFORMATION

Are there any overseas students? No.

Has the department organized

- Lectures:

### SPECIAL LECTURES SERIES 2007-2008

No.	Speaker	Title	Date
1.	Prof. T.Tamizh Chelvam, Manonmaniam Sundaranar University	Fuzzy Graphs	8.2.2008
2.	Prof. P.Kandaswamy, Bharathiar University	Mathematical Model of Human Immune System	19.03.2008
3.	Prof. M.S. Mahadeva Naika, Karnatak University, Dharwad	Basic Hypergeometric Series	26.03.2008
4.	Prof. M.S. Mahadeva Naika, Karnatak University, Dharwad	q-series and Theta functions	26.03.2008
5.	Prof. Y.B. Maralabhavi, Bangalore University	Differential Geometry	26.03.2008
6.	Dr. S. Somasundaram, Manonmaniam Sundaranar University	Introduction to Non- standard Analysis	27.03.2008
7.	Dr. R.Sampath Kumar, Annamalai University	Graph Parameters	27.03.2008

### SPECIAL LECTURES SERIES 2008-2009

No.	Speaker	Title	Date
1.	Prof. Sunil Chebolu, Illinois State University, USA	Some Applications of Auslander- Reiter Sequences	01.08.2008
2.	Prof S. Swaminathan, Dalhousie University, Canada	On a paper of Ezra Brown in American Math. Monthly, 2001	30.01.2009
3.	Prof. S. Kumaresan, University of Hyderabad	Mathematical Modeling in Ecology, Physiology and Medicine	03.02.09 - 05.02.09

- Workshops:

No.	Title	Level	Dates
1	CIMPA School on Discrete Integrable Systems	International	2-14 February 2003
2	DST – SERC School on Non-Linear Dynamics	National	4-24 January 2006
3	Lecture workshop Supported by Indian Academy of Sciences, Bangalore	National	4-6 April 2008

- Seminars:

National Seminar in Algebra & Analysis was held on 14<sup>th</sup> March 2007. The following professors delivered invited lectures:

No.	Speaker	Title of Talk
1.	Prof. R. Srinivasan Chennai Mathematical Institute	$E_0$ Semigroups
2.	Prof. S. Ponnusamy Indian Institute of Technology, Madras	Role of Special Functions in Function Spaces and Function Theory
3.	Prof. G.P.Youvaraj Ramanujan Institute, University of Madras	Kolmogorov's Rearrangement Problem- An Overview
4.	Prof. N.Thillaigovindan Annamalai University	An Introduction to Fuzzy Measures

- Conferences:

The Department organized National Conference on Mathematics and Statistics during 30<sup>th</sup> and 31<sup>st</sup> October 2006.

The following professors delivered invited lectures:

1. Dr. R. Balasubramanian, Director, Institute of Mathematical Sciences, Chennai
2. Dr. S. Parvathi, Director, Ramanujan Institute of Advanced Study in Mathematics, University of Madras, Chennai
3. Dr. P. Jothilingam, Professor of Mathematics, Ramanujan Institute of Advanced Study in Mathematics, University of Madras, Chennai
4. Dr. R. Sahadevan, Professor of Mathematics, Ramanujan Institute of Advanced Study in Mathematics, University of Madras, Chennai
5. Dr. A. R. Meenakshi, AICTE Emeritus Fellow, Annamalai University, Annamalainagar
6. Dr. E. Dhandapani, Head, Department of Mathematics, Periyar University, Salem

If yes, what is the nature and extent of student participation?

The students of M.Sc. M.Phil and Ph.D. programmes have participated in the deliberations and got clarifications on their doubts from the speakers

No. of students who have passed the following during the last six years

- NET : 5
- SLET :
- CAT :
- TOEFEL :
- GRE :
- G-MAT :
- KAS :
- IAS :
- Defense entrance :
- Others (GATE) : 8

**Titles of Research Projects :**

Is there any Student Counseling center in the department.

**Faculty Advisor is assigned for each student**

Is there any Grievance Redressal cell?

When did the Alumni – Association of the department got established? How many members are actively involved ? Give enrolment statistics.

Place: Pudcherry -14

Date: 28.10.2009

Signature with Seal of Chairperson



**PONDICHERY UNIVERSITY  
DEPARTMENT OF MATHEMATICS**

**Dr.A.M.S.RAMASAMY  
Professor & Head**

**R.V.Nagar  
Puducherry – 605 014**

**Ref: PU/Maths/2009-10/NAAC**

**To  
The Deputy Registrar (Planning & Development)  
Pondicherry University  
Puducherry**

**Sir,**

**Sub: NAAC Team Visit – Department Profile – Forwarded – Reg.**

**Hereby I forward the Department Profile (Hard copy and Soft copy) pertaining to the Department of Mathematics, in connection with the visit of NAAC Team.**

**Thanking you,**

**Yours faithfully,**

**(A.M.S.RAMASAMY)**