

## EVALUATIVE REPORT OF THE DEPARTMENT

1. Name of the Department & : Mathematics (PG and Research)  
its year of establishment 1957 – 58

2. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Sl. No.	Name of Programme	Subject	Year of affiliation	No. of sections	Sanctioned strength	Total Student strength (2011-12)	Remarks
1.	B.Sc.	Mathematics	1957-58	4	220	580	I, II & III Year
2.	M.Sc.	Mathematics	1967-68	3	90	180	I & II year
3.	M.Phil.	Mathematics	1982-83	--	48	48	One Year
4.	Ph.D.	Mathematics	1987-88	--	24	19	--
5.	UG Diploma	Operations Research	1995-96	--	30	--	One Year
6.	Certificate Course	Decision Making Techniques	2005-06	--	30	22	One Year

3. Interdisciplinary courses and departments involved

- In UG level, in **Part IV** interdisciplinary Courses like **Skill Based Elective** are offered in all the six semesters and **Non-Major Elective** in the final year as mandatory to all the students.
- In PG level, in the final year **Extra Disciplinary Courses** are offered mandatory to all the students.

Interdisciplinary courses		Departments involved
UG Level	Skill Based Elective	History, Tamil, English, Commerce, Chemistry, Botany, Zoology, Computer Science, Physical Education, Business Administration
	Non – Major Elective	History, Economics, Tamil, English, Commerce, Physics, Chemistry, Botany, Zoology, Computer Science, Physical Education, Business Administration
PG Level	Extra Disciplinary	History, Economics, Tamil, Commerce, Physics, Chemistry, Botany, Zoology, Computer Science

4. Annual/ Semester/Choice Based Credit System:  
Semester pattern with Choice Based Credit System

5. Participation of the department in the courses offered by other departments:

In addition to **Allied Mathematics** in departments like Physics, Chemistry, Computer Science and Commerce, our department participates in the courses offered by other departments by extending **Skill Based Elective** and **Non-Major Elective** at UG level and **Extra Disciplinary Courses** at PG level to all the students

**Skill Based Courses – UG Level**

- ❖ Non- Verbal Reasoning
- ❖ Arithmetic Ability- I
- ❖ Arithmetic ability- II
- ❖ Arithmetic ability- III
- ❖ Verbal Reasoning- I
- ❖ Verbal Reasoning- II

**Non Major Elective courses – UG Level**

- ❖ Mathematics for Finance
- ❖ Statistical Inference

**Extra disciplinary course – PG Level**

- ❖ Applicable Mathematical Techniques

The Courses offered by other departments that are handled by our staff

Sl. No.	Name of the Programme	Semester	Title of the Course	Name of the Department
1.	II BBA	III	Business Mathematics	Business Administration
2.	I MBA	II	Quantitative Technique	Business Administration
3.	I M.Com.	II	Optimization Technique	Commerce
4.	II M.C.A.	III	Mathematical Foundations of computer sciences	Computer Science
5.	II M.C.A.	IV	Optimization Technique	Computer Science

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

**AIDED SECTION**

Post	Sanctioned	Filled	Vacant
Associate Professors	-	04(Promoted)	-
Asst. Professors	13	05	04

**SELF-FINANCE SECTION**

Post	Sanctioned	Filled	Vacant
Asst. Professors	16	20*	-

\* including 4 teachers appointed temporarily against permanent vacancies.

**7. Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)**

Sl. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guiding	Re marks
<b>Aided Section:</b>				<b>Guiding</b>			
1.	Dr. S. Jayakumar	Ph.D.	Assoc. Prof.	Stochastic Processes	31 yrs 5 mths	5	-
2.	Dr. S. Udayakumar	Ph.D.	Assoc. Prof.	Fuzzy Applications	30 yrs	5	-
3.	Dr. G. Karikalan	Ph.D.	Assoc. Prof.	Stochastic Processes	30 yrs 7mths	-	-
4.	Mr.A.Panneerselvam	M.Phil.	Assoc. Prof.	Image Processing	29 yrs	-	Doing Ph.D.
5.	Dr. P. Jayakumar	Ph.D.	Asst. Prof.	Number Theory	26 yrs 8 mths	6	-

Sl. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guiding	Remarks
6.	Dr. G. Komahan	Ph.D.	Asst. Prof.	Digital Image Processing	26 yrs	-	-
7.	Mr. G. Marimuthu	M.Phil.	Asst. Prof.	Fuzzy Analysis	26 yrs	-	-
8.	Mr.S.Sankaranarayanan	M.Phil.	Asst. Prof.	Fuzzy Statistics	14 yrs	-	Doing Ph.D.
9.	Mr. G. Sivakumar	M.Phil.	Asst. Prof.	Fuzzy Mathematical Modeling	15 yrs	-	Doing Ph.D.
<b>Self – Finance Section:</b>							
1.	Mr. B. Arunraj	M.Phil.	Asst. Prof.	Fuzzy Mathematics	9 yrs	-	Doing Ph.D.
2.	Mr. D. Ramprasad	M.Phil.	Asst. Prof.	Genetic Algorithm	8 yrs	-	Doing Ph.D.
3.	Mr. D.R.Kirubaharan	M.Phil.	Asst. Prof.	Graph Theory	6 yrs	-	Doing Ph.D.
4.	Mr. A. Gurumoorthy	M.Phil.	Asst. Prof.	Fuzzy Analysis	5 yrs	-	Doing Ph.D.
5.	Mr. R. Jayakumar	M.Phil.	Asst. Prof.	Image Processing	2 yrs	-	-
6.	Mr. V .Pandiyam	M.Phil.	Asst. Prof.	Fuzzy Analysis	4 yrs	-	Doing Ph.D.
7.	Mr. A. Rajkumar	M.Phil.	Asst. Prof.	Fuzzy Decision making	2 yrs	-	Doing Ph.D.
8.	Mrs. K. Uma	M.Phil.	Asst. Prof.	Fuzzy Sets and their Applications	9 yrs	-	Doing Ph.D.
9.	Mrs. S. Prabha	M.Phil.	Asst. Prof.	Number Theory	3 yrs	-	Doing Ph.D.
10.	Mrs. S. Geethalakshmi	M.Phil.	Asst. Prof.	Fuzzy set	3 yrs	-	Doing Ph.D.
11.	Ms. C. Kanagadurga	M.Phil.	Asst. Prof.	Number Theory	2 yrs	-	Doing Ph.D.
12.	Ms. M. Usha Rani	M.Phil.	Asst. Prof.	Fuzzy set Theory	2 yrs	-	-
13.	Mrs. R. Tamilarasi	M.Phil.	Asst. Prof.	Stochastic Processes	2 yrs	-	-
14.	Mrs. J. Meena	M.Phil.	Asst. Prof.	Number Theory	2 yrs	-	Doing Ph.D.
15.	Mrs. M. Meena	M.Phil.	Asst. Prof.	Fuzzy set	2 yrs	-	-
16.	Mrs. P. Reka	M.Phil.	Asst. Prof.	Number Theory	2 yrs	-	Doing Ph.D.
17.	Ms. B. Subashini	M.Phil.	Asst. Prof.	Fuzzy graph	1 yr	-	-
18.	Ms. P. Sangeetha	M.Phil.	Asst. Prof.	Fuzzy set	10 mths	-	-
19.	Mrs. V. Punitha	M.Phil.	Asst. Prof.	Image Processing	10 mths	-	-
20.	Ms. R. Hema	M.Phil.	Asst. Prof.	Fuzzy Graph	10 mths.	-	-

### 8. Percentage of classes taken by temporary faculty – programme-wise information

Sl. No.	Programmes	Morning session	Evening session
1.	UG	67	100
2.	PG	33	81

### 9. Programme-wise Student Teacher Ratio

Sl. No.	Name of the programme	Student teacher ratio
1.	UG	29:1

2.	PG	25:1
3.	M.Phil	24:1

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

Sl. No.	Staff	Sanctioned	Filled
1.	Technical	1	1
2.	Administrative	1	1

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

Sl. No.	Name of the Faculty	Project Title	Name of ongoing project	Name of funding agency	Amount sanctioned Rs.
1.	Dr.N.Ethirajalu	Application of rough sets in medical field	Minor	UGC	95,000/-

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received : Nil**

**13. Research facility / centre with**

• **State recognition**

- \* The staff members provide Research Facility by guiding Ph.D. scholars in the department affiliated to Bharathidasan University, Trichirappalli
- \* The Research Advisors are members of Doctoral Committees of other colleges and in the affiliated University.
- \* **Mathematical Support Centre** offers statistical analysis and support to scholars of non-mathematical programmes with data.

• **National and International recognition**

- \* The staff members have presented Research Papers in National, International Seminars, Conferences, Symposia and Workshops and published Research Articles in National and International Journals.

#### 14. Publications:

- \* number of papers published in peer reviewed journals (national/international)

Sl. No.	Year of Publication	Paper Published	
		National	International
1.	2007 – 2008	01	01
2.	2008 – 2009	01	01
3.	2010 – 2011	02	01
4.	2011 – 2012	-	03

- \* Monographs : Nil
- \* Chapter(s) in Books : Nil
- \* Editing Books : Nil
- \* Books with ISBN numbers with details of publishers : Nil
- \* number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil
- \* Citation Index – range / average : Nil
- \* SNIP : Nil
- \* SJR : Nil
- \* Impact factor – range / average : Nil
- \* h-index : Nil

#### 15. Details of patents and income generated - Nil

#### 16. Areas of consultancy and income generated:

Mathematical Supportive Centre offers consultation on statistical analysis and support to scholars of non-mathematical programmes with data on non-profitable basis.

#### 17. Faculty recharging strategies

Staff members have undergone Orientation, Refresher Courses, attended seminars and presented papers.

#### Orientation / Refresher Courses

Sl. No.	Year	Number of staff attended	
		Orientation	Refresher
1.	2007 – 2008	-	02
2.	2008 – 2009	-	03
3.	2009 – 2010	-	02
4.	2010 – 2011	01	-

#### Seminars attended and Papers presented

Sl. No.	Year	State		National		International	
		A	P	A	P	A	P
1.	2007 – 2008	-	-	02	-	01	-
2.	2008 – 2009	06	03	01	01	01	01
3.	2009 – 2010	-	-	02	02	-	-
4.	2010 – 2011	02	02	03	03	-	-
5.	2011 – 2012	-	-	04	04	01	01

A – Attended, P-Presented

## 18. Student projects

- percentage of students who have done in-house projects including inter-departmental

Project Work finds a place in the curriculum only at M.Phil. level.

Sl. No.	Year of study	Students Strength in M.Phil.	Percentage of students who have done in-house projects
1.	2007-08	38	100
2.	2008-09	36	100
3.	2009-10	25	100
4.	2010-11	37	100
5.	2011-12	48	100

- percentage of students doing projects in collaboration with industries / institutes : Nil

## 19. Awards / recognitions received at the national and international level by

- Faculty

✎ **Dr.N.Ethirajalu** of our Department was elevated as **Director, Sri Pushpam Institute of Technical Education** in 2006–2007 and as **Principal** of our institution in 2008–2009. After his retirement, he serves as **Vice Chancellor** of **PRIST University, Thanjavur**.

✎ **Dr.S.Udayakumar** of our Department is the **Internal Quality Assurance Cell (IQAC) Co-ordinator**.

✎ **Dr.G.Karikalan** of our Department is elevated as the **Controller of Examinations** in our institution from 2010 – 2011.

- Doctoral / post doctoral fellows - Nil

- Students

- Mr.S.Kumaravel Mr.D.Aravindan**, II M.Sc. Maths attended - Fourth Annual Foundation School in Mathematics at IIT, Kanpur for the year of 2007-08
- Mr.S.Kumaravel**, II M.Sc. Maths - Summer Training Programme in Maths at Ramanujam Institute for Advanced Study in Maths , Chennai for the year 2007–08
- T.Abirami, M.Sonia, S.Renuka** of III B.Sc. Maths won I Place in Maths Fest in “**Ultra Math–12**” at Holy Cross College, Trichy on 24.01.2012.
- A.Latha, T.Kanimozhi** of III B.Sc. Maths won II Place in Maths Rangoli in “**Ultra Math–12**” at Holy Cross, Trichy on 24.01.2012.
- J.Jothilakshmi, S.Vinothini, K.S.Sampoorna Lakshmi** of III B.Sc. Maths won II Place in Maths Shock in “**Ultra Math–12**” at Holy Cross College, Trichy on 24.01.2012.

## 20. Seminars/ Conferences/Workshops organized and the source of



funding (national / international) with details of outstanding participants, if any.

Sl. No.	Seminar Title	Date of Seminar conducted	Name of sponsoring agency	Amount sanctioned Rs.
1.	State level Seminar on Recent Trends in Mathematics and its Applications	02-03 Aug. 2008	TANSCHE	20000

**Outstanding participants who graced the occasions**

1. **Dr.A.Nagoor Gani**, Associate Professor of Mathematics, Jamal Mohamed College, Trichy.
2. **Dr.T.Tamizh Chelvam**, Associate Professor of Mathematics, Manomaniam Sundaranar University, Tirunelveli.
3. **Dr.P.Balasubramanian**, Associate Professor of Mathematics, Gandhigram University, Gandhigram.
4. **Dr.S.Rubanraj**, H.O.D. of Mathematics, St. Joseph’s College, Trichy.
5. **Dr.A.Vedhamanickam**, H.O.D. of Mathematics, H.H. The Rajah’s College, Pudukkottai
6. **Dr.S.Lakshmi**, H.O.D. of Mathematics, K.N.Govt. Arts College for Women, Thanjavur

**21. Student profile course-wise:**

**UG Programmes**

Year of study	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2007-08	92	43	25	79	78
2008-09	125	52	40	73	91
2009-10	225	95	66	90	90
2010-11	230	103	119	73	100
2011-12	330	92	113	64	92

**PG Programmes**

Year of study	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2007-08	56	20	27	71	86
2008-09	42	13	20	81	95
2009-10	70	28	26	77	100
2010-11	105	44	52	92	95
2011-12	145	43	43	77	96

**M.Phil. Programmes**

Year of study	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2007-08	57	13	25	92	96
2008-09	59	12	24	100	100
2009-10	60	03	22	100	95
2010-11	62	13	24	100	100
2011-12	70	10	38	100	100

### Ph.D. Programmes

Doing		Awarded before the assessment period		Awarded during the assessment period	
Male	Female	Male	Female	Male	Female
8	11	9	7	4	1

### Certificate Course

Year of study	Applications received	Selected	Pass percentage
2007-08	19	19	100
2008-09	26	22	100
2009-10	24	24	100
2010-11	27	21	100
2011-12	22	22	100

### 22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc. Mathematics	--	100	--	--
M.Sc. Mathematics	32	68	--	--
M.Phil. Mathematics	49	51	--	--
Ph.D. Mathematics	42	58	--	--
UG Diploma	--	100	--	--
Certificate Courses	--	100	--	--

### 23. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations?

Sl. No.	Name of the Examination	No. of Students
1.	NET	04
2.	SLET	08
3.	BSRB	12

### 24. Student progression

Student progression	Percentage against enrolled
UG to PG	90
PG to M.Phil.	80
PG to Ph.D.	10
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	05
• Other than campus recruitment	90
Entrepreneurs	05

### 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	70
from other universities within the State	30
from other universities from other States	--



**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

Sl. No.	Year of completion	No. of Ph.D. Awarded	
		Faculty	Others
1.	2008 – 2009	-	01
2.	2009 – 2010	01	01
3.	2010 – 2011	-	01
4.	2011 – 2012	01	-

**27. Present details about infrastructural facilities**

- a) Library : General Library - 6,784  
Department Library - 139
- b) Internet facilities for staff and students : Internet facility is available in the department for staff and students.
- c) Total number of class rooms : 06
- d) Class rooms with ICT facility : Nil
- e) Students' laboratories : 01
- f) Research laboratories : NIL

**28. Number of students of the department getting financial assistance from College.**

Year	Management Financial Assistance			Government Financial Assistance		
	UG	PG	M.Phil	UG	PG	M.Phil
2007-08	17	8	2	170	38	19
2008-09	40	9	7	120	22	18
2009-10	45	19	4	360	68	35
2010-11	72	6	4	372	38	25
2011-12	51	8	3	514	68	24

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, the need assessment exercise is undertaken before the development of new programmes. Based on the applications received and the rise in the demand, the new programmes /additional sections are started.

**30. Does the department obtain feedback from**

- a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**
- Senior faculty members based on their teaching and evaluation experience give their feedback as members of Board of Studies.
  - Faculty members from other institutions give their feedback during valuation.
  - The Feedbacks are utilized to update and revise the syllabus.
- b) **Students on staff, curriculum as well as teaching-learning-**

**evaluation and what is the response of the department to the same?**

- Students’ feedback on staff received after every semester is taken into consideration and remedial measures are taken by giving counseling and handling coaching classes.
- Out going Students’ feedback on curriculum is utilized while framing and revising the syllabus.
- Students’ representation is there in Board of Studies to elicit their point of view.

**c) Alumni and employers on the programmes and what is the response of the department to the same?**

- Feedbacks received during Alumni meets and Employers interaction are taken into consideration while framing and revising the syllabus.
- Representation of Alumni and employers is there in Board of Studies to procure their valuable suggestions.

**31. List the distinguished alumni of the department (maximum 10)**

SL. No.	Name of the Alumni	Designation	Place
1.	Dr.N.Ethirajalu	Vice-Chancellor	PRIST University, Vallam, Thanjavur
2.	Prof.C.Nagarajan	Pro Vice-Chancellor	PRIST University, Vallam, Thanjavur
3.	Dr.R.Sahadevan	Director	Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai
4.	Dr.R.Bala subramanian	Director	Institute of Mathematical Sciences, Taramani, Chennai.
5.	Dr.V.Ramadoss	Dean of Sciences	PRIST University, Vallam, Thanjavur
6.	Er.G.Ramalingam	Scientist	ISRO, Bangalore
7.	Mr.S.Gopalakrishnan	Manager	State Bank of India, Nungambakkam, Chennai.
8.	Dr.Ebinezer	Regional Joint Director (Rtd)	Regional Collegiate of Education, Tirunelveli.
9.	Dr.R.Natarajan	Dean of Sciences	Alagappa University, Karaikudi
10.	Prof.R.R.Peer mohamed	Professor	Eretria Institute of Technology, Eretria, South Africa

**32. Give details of student enrichment programmes (special lectures/workshops/ seminar) with external experts.**

- Department Seminars at UG, PG and M.Phil. levels are conducted once in a semester
- Special Lectures with external experts are arranged periodically.

Sl. No.	Seminar Date	Seminar Title	Invited Talk
1.	Aug. 8, 2009	A Seminar on	Dr.A.Nagoorgani

		“Mathematical Modeling”	(Jamal Mohamed College, Trichy)
2.	Aug. 24, 2010	A Seminar on “Computational Aspects of Mathematics”	<b>Dr.A.Vedhamanickam</b> (H.H. The Rajah’s College, Pudukkottai)
3.	Aug. 13, 2011	A Seminar on “Mathematical Type-set with LaTeX”	<b>Dr.S.Rubanraj</b> (St.Joseph’s College, Trichy)
4.	Aug. 17, 2012	A Seminar on “Mathematical Modeling”	<b>Dr.S.Lakshmi</b> (K.N.Govt. Arts College for Women, Thanjavur)

**33. List the teaching methods adopted by the faculty for different programmes.**

Sl. No.	Programme	Teaching Methods Adopted
1.	UG	Chalk-Talk Method, Display Boards, Diagrams, Slide Projectors, OHP, Guest Lectures, Seminars, Library hours allotment and supply of Study Materials.
2.	PG	Chalk-Talk Method, Interaction, Display Boards, Static Module, Diagrams, LCD, OHP, Guest Lectures, Seminars, Library hours allotment and supply of Study Materials.
3.	M.Phil.	Chalk-Talk Method, Interaction, LCD, OHP, Guest Lectures, Seminars and Library hours allotment, Group Study, Panel Discussion, Project Work and Micro teaching.

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- a) The constant and continuous assessment of students through CIA to improve the attendance and performance of the students.
- b) To assess students performance regularly and to take corrective measures the Mid Semester, End Semester and Semester Results are analyzed and reviewed objectively.
- c) The Tutorial System serves to better the interaction between students and teachers, between parents and teachers and between students and parents.
- d) The suggestions in Students’ feedback helps to improve the quality of teaching.
- e) The analysis of the performance of teachers based on students results helps the staff members to decide upon their course of teaching.
- f) Annual Review of results and performance of teachers conducted by Secretary and Correspondent has a telling effect on the teachers regarding their work culture.
- g) The feedbacks from students, Alumni, Parents and other stakeholders help the authorities to take suitable corrective measures regarding the framing of syllabus. It is ensured that programme objectives are constantly met in these ways and learning outcomes are monitored.

**35. Highlight the participation of students and faculty in extension activities.**

Participation in Extension Activities is mandatory for all UG students as Part–V of studies.

**Participation of faculty in Extension Activities**

Sl. No.	Name of the Faculty	Name of the Extension Activity Participated
i.	Dr.S.Udayakumar	NSS Programme Officer
ii.	Dr.G.Karikalan	NSS Programme Officer
iii.	Prof.A.Panneerselvam	NSS Programme Officer
iv.	Prof.A.Panneerselvam	RRC Programme Officer

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- ☞ Training students to participate in events like Maths Quiz.
- ☞ Giving training to students to improve their communicative, debating/oratorical skills with topics related to Mathematics.

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.: Nil**

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths:**

- i. There is a heavy demand for Mathematics due to the scope of employment opportunities and chances to pursue higher studies upto Research level. The creation of 4 additional sections in B.Sc. and 3 in M.Sc. is a testimony to this.
- ii. A team of highly qualified faculty with updated and diverse research experience coupled with devotion is an added strength to the department.
- iii. Department of Maths is as old as the college and it has a good collection of old and new books, research journals and back volumes for reference.
- iv. The study of Mathematics requires aptitude as well as interest and the composition of strength in Mathematics programmes, is due to students of above medium calibre. This homogeneous nature of class helps in forming a healthy atmosphere of study.
- v. Language skill is not much required in learning Mathematics.

**Weaknesses:**

- i. Most of the students are first learners and yet we take all possible steps to educate them well and attain better results.

- ii. Applied Mathematics programmes are not preferred by employers and problems arise in appointments in certain areas. Hence only pure Mathematics has to be offered. However application oriented courses are included in the programme.
- iii. The change of the medium of instruction is an inhibition to students of this backward area and yet we surmount this difficulty through courses on **Communicative Skills**.
- iv. Students with Mathematics alone at Higher Secondary Level, find it difficult to study pure sciences as Allied courses. However bridge course is offered to them.

### Opportunities:

- i. There are opportunities for horizontal mobility and vertical mobility.
- ii. The change of the college into co-education mode has widened the opportunities for girls to continue their studies in higher education. This has also helped to create a healthy competition among boys and girls.
- iii. **Mathematics Support Centre** – offers statistical analysis and support to scholars of non-mathematical Programmes, with data. This provides an excellent opportunity for non-Mathematics students.
- iv. Courses on Computer Science mostly find place in the curriculum of Mathematics. This enables the students to learn the basic tenets of Computer Science and this enhance them job opportunities in software related fields.
- v. The interdisciplinary approach of handling in the Departments of Computer Science, Physics, Chemistry, Commerce and Management Studies. This provides opportunities for the staff members to gain knowledge in other subjects too.

### Challenges:

- i. The teaching of Mathematics for Allied Courses and Courses with Non–Major Mathematics subjects is a task. But for those students we start with basic rudiments and elementary things before getting into the syllabus.
- ii. The scope for self-study is very limited in Mathematics due to its complex nature. Hence the teacher’s job is a challenging one.
- iii. To make students without Mathematics at Higher Secondary Level to pass in ancillary Mathematics is a challenge.

### 39. Future plans of the department.

- i. Mathematical prodigy **Srinivasa Ramanujam** lived near Kumbakonam just 25 kms from the location of our college. In order to honour him and to draw mathematical wizards to our college, we have proposed to open a **Mathematical Research Centre** in his name.
- ii. There is a plan to introduce a course on **Personality Development** and **Communication Skills** in the curriculum at P.G. level to enhance the employability skills of our students.
- iii. At present, coaching for preparation to Aptitude Examination is given at random. In future, we have proposed to sign an **MoU** with a renowned Soft Skill Zone.

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### Achievements of the Department:

- ☞ Being the oldest department of Madras University has record of awarding more than 25,000 Mathematics graduates, since 1956.
- ☞ We have produced 634 Mi Phil. and 21 Ph.D. scholars so far.
- ☞ First Research Centre for Mathematics by the University of Bharathidasan, Tiruchirappalli.
- ☞ In UG 3 additional sections and in PG 2, give opportunity for more boys and girls to do this Programme.
- ☞ Our department has produced many eminent personalities like Dr.R.Balasubramanian, Director, Institute of Mathematical Science, Chennai, Dr.N.Ethirajalu, Vice-Chancellor, PRIST University, Dr.Ebenezer, UGC review committee member, Dr.R.Sahadevan, Ramanujam Institute for Advanced study in Mathematics, Chennai.
- ☞ The department has ‘Mathematics support centre’ equipped with statistical packages to cater the needs of students and scholars of neighbouring Institutions.
- ☞ A training programme for PG Teachers of schools was conducted by our department utilizing the funds from the **Tamil Nadu State Council for Higher Education**.

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