#### PASUMPON MUTHURAMALINGA THEVAR COLLEGE, USILAMPATTI

#### **DEPARTMENT OF MATHEMATICS**

#### PERFORMANCE APPRAISAL REPORT

## **SELF APPRAISAL**

#### A. General Information

a) Name : Dr. M.RENUGA DEVI,

b) Father's Name
c) Educational Qualifications
d) Address
i. Mr. P. Mayathevar
i. M.Sc.,M.Phil.,Ph.D.,
j. Assistant Professor,

Department of Mathematics,

Pasumpon Muthuramalinga Thevar College,

Usilampatti, Madurai – 625 532.

e) Designation : Assistant Professor

f)Department:Mathematicsg)Date of Birth:23.03.1980

h) Area of Specialization : Differential Equations

g) Date of appointment : **29-10-2007**(i) in the Institution : 29-10-2007
(ii) in the present post : 29-10-2007

#### **B.** Academic Qualification

Exam Passed	Subjects	Board / University	Year	Division
High School	General	Board of Secondary  Education Tamilnadu	APR.1995	I -Class
Higher Secondary of Pre-Degree	Bio-Maths	Board of Higher Secondary  Education Tamilnadu	MAR.1997	I-Class
Bachelor's Degree	Mathematics	Madurai Kamaraj University-Madurai	APR.2000	I-Class
Master's Degree	Mathematics	Madurai Kamaraj University-Madurai	APR.2002	I-Class
Research Degree (s)	M. Phil (Maths)	Madurai Kamaraj University-Madurai	APR.2003	I-Class
Degree (s)	Ph. D (Maths)	Madurai Kamaraj University-Madurai	AUG.2017	-
Other Diplomas / certificates etc.		-	-	-

<sup>\*</sup> for teachers already in employment at the time of introduction of the scheme for new entrants at the time of joining of the institution

# C. Research Experience & Training

Exam Passed	Subject	Board / University	Year	Division
M.Phil	Mathematics	Madurai Kamaraj University-Madurai	APR.2003	I-Class
Ph.D.,	Mathematics	Madurai Kamaraj University-Madurai	AUG.2017	Awarded
Post Doctoral	Nil	Nil	Nil	Nil
Research Guidance (Give names of Students guided successfully	Nil	Nil	Nil	Nil
Other Diplomas / certificates etc.	Nil	Nil	Nil	Nil
Training (Please Specify)	Nil	Nil	Nil	Nil

# D. Research projects carried out

Title of the Project	Name of the Funding agency	During Remarks
Nil	Nil	Nil

III (A) (i) Research Papers Published in Journals:

Sl. No	Title, Vol., Page No. & year	Journal	ISSN/ ISBN	Peer reviewed, Impact Factor	No. of Co- authors	Whether you are First/ principal/ Corresponding author	Score by Self	Score by IQAC	Score by Screening committee
1.	"Mathematica I modeling of Enzyme Kinetic Reaction mechanisms and Analytical solutions of Non-linear Reaction Equations using Variational	International Journal of Mathematical Archive	ISSN: 2229- 5046	Peer reviewed	1	Yes	15		

	Iteration method", , 5(1), 2014, 142—151.							
2.	1. "Non-linear Reaction Diffusion Equation with Michaelis_Me nten Kinetics and Adomian Decompositio n method", , 2015,5(1), 21-32.	Applied Mathematics		Peer reviewed	2	Yes	15	
3.	"Theoretical Analysis of Aerobic degradation of vinasses with pencillium decumbens", March-April (2015), 27-32.	Asian Journal of current Engineeering and Maths,	ISSN: 2277- 4920	Peer reviewed	1	Yes	15	
4.	"The approximate analytical solution of Non-linear equation for simultaneous Internal Mass and Heat diffusion effects", (2016), 8,284-294.	Natural Science,		Peer reviewed	2	Yes	15	

III (A) (ii) Full Papers in Conference Proceedings:

	Sl. No	Title, Vol., Page No. & year	Journal	ISS N/ IS BN	Peer reviewe d, Impact Factor	No. of Co- authors	Whether you are First/princi pal/Corresp onding author	Score by Self	Score by IQAC	Score by Screening committee
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III (B) (i) Books published as single author or as editor:

	iii (D) (i) books pu	blished as siligie	author o	i as cuito	1.				
Sl. No	Title	Publisher, Year	ISBN	Peer reviewed, Impact Factor	No. of Co- authors	Whether you are First/ principal/ Corresponding author	Score by Self	Score by IQAC	Score by Screening committee
1.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

III (B) (ii) Articles /Chapters published in Books:

Sl. No.	Title, Vol., Page No. & year	Journal	ISSN/ ISBN	Peer reviewed, Impact Factor	No. of Co- authors	Whether you are First/principal/C orresponding author Score by Self		Score by IQAC	Score by Screening committee
III (A)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(i)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## III C (i) and (ii) Ongoing and Completed Research Projects and Consultancies:

Sl. No.	Title	Principal Investigator	Funding Agency	Period	Grant Mobilized	Score by Self	Score by IQAC	Score by Screening committee
1.	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

# III C ((i) & (ii)) Ongoing Projects

Sl. No	Title	Principal Investigator	Funding Agency	Period	Grant Mobilized	Score by Self	Score by IQAC	Score by Screening committee
1	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## III D (i) and (ii) Research Guidance

# III. (E) (i) Refresher Courses, Methodology Workshops, Training, Teaching- Learning-Evaluation Technology Programmes, Soft Skills Development Programmes, Faculty Development Programmes

CI No	Programme	Dur	ation	Ougonized by	Score	Score	Score by
Sl. No.		From	То	Organized by	by Self	by IQAC	Screening committee
1.	Orientation Programme,	19.08.2008	15.09.2008	UGC-Academic Staff College, Madurai Kamaraj Univerisity, Madurai	10		
2.	Refresher Course in Mathematics	22.01.2010	11.02.2010	UGC-Academic Staff College, Madurai Kamaraj Univerisity, Madurai	10		
3.	Refresher Course in Mathematics	03.02.2015	23.02.2015	UGC-Academic Staff College, Madurai Kamaraj Univerisity, Madurai	10		
4.	Refresher Course in Environmental Studies	21.01.2020	03.02.2020	UGC-Academic Staff College, Madurai Kamaraj Univerisity, Madurai	10		

## III (E) (ii) Papers presented in Conferences, Seminars, Workshops, Symposia:

Name of the Seminar / Conference / Symposia / Workshop etc.,	State / National International Level	Name of the Sponso ring agency	Place	Date
1	National Seminar on Applications of Differential Equations	UGC	Dept. of Mathematics, The Madura College, Madurai.	2012
2	National Conference on Partial Differential Equations and Applications	-	Dept. of Mathematics, Bharathiyar University, Coimbatore	2014
3	National Conference on Recent Trends in Applicable Mathematics	UGC	Bharata Mata College, Thrikkakara, Kochi, Kerala.	2014
4	State level Seminar on Recent Trends in Mathematical models	UGC	Dept. of Mathematics, Mannar Thirumalai Naicker College, Madurai	2014
5	National Conference on Recent development in Mathematics and its Applications	DST	Dept. of Mathematics, The Madura College, Madurai	2015
6	Science Academeis Lecture workshop on Differential Equations for dynamical systems	IASC& NASC	Dept. of Mathematics, The Madura College, Madurai	2018
7	Workshop on Fuzzy set theory and its Applications	DST	Research centre &PG Department of Mathematics, JA college for women, Periyakulam	2019

Sl. No.	Title of paper	Title of conference/Seminar & Date etc.	Organized by	Score by Self	Score by IQAC	Score by Screening committee
1.	Applications of	National Seminar on	Dept. of	5		
	Differential	Applications of	Mathematics, The			
	Equations	Differential Equations	Madura College,			
			Madurai.			

2.	Partial	National Conference on	Dept. of	5	
	Differential	Partial Differential	Mathematics,		
	Equations and	Equations and	Bharathiyar		
	Applications	Applications	University,		
			Coimbatore.		
3.	Recent Trends	National Conference on	Bharata Mata	3	
	in Applicable	Recent Trends in	College,		
	Mathematics	Applicable	Thrikkakara,		
		Mathematics,	Kochi, Kerala		
4.	Recent Trends	State level Seminar on	Dept. of	3	
	in Mathematical	Recent Trends in	Mathematics,		
	models	Mathematical models	Mannar		
			Thirumalai		
			Naicker College,		
			Madurai		
5.	Recent	National Conference on	Dept. of	3	
	development in	Recent development in	Mathematics, The		
	Mathematics	Mathematics and its	Madura College,		
	and its	Applications	Madurai.		
	Applications				
6.	Differential	Science Academeis	Dept. of	3	
	Equations for	Lecture workshop on	Mathematics, The		
	dynamical	Differential Equations	Madura College,		
	systems	for dynamical systems	Madurai.		
7.	Fuzzy set theory	Workshop on Fuzzy set	Research centre	3	
	and its	theory and its	&PG Department		
	Applications	Applications	of Mathematics,		
	**		JA college for		
			women,		
			Periyakulam		

# E. Seminars, Conferences, Symposia, Workshops etc., attended

Sl. No	Name of the Seminar/ Conference/ Symposia/ Workshop etc.,	State / National / International Level	Seminar Paper Presented / Attended	Palace	Year
1	National Seminar on Applications of Differential Equations	National	Attended	Dept. of Mathematics, The Madura College, Madurai	2012
2	National Conference on Partial Differential Equations and Applications	National	Paper Presented	Dept. of Mathematics, Bharathiyar University, Coimbatore	2014
3	National Conference on Recent Trends in Applicable Mathematics,	National	Paper Presented	Bharata Mata College, Thrikkakara, Kochi, Kerala	2014

4	State level Seminar on	State	Attented	Dept. of	2014
	Recent Trends in			Mathematics,	
	Mathematical models			Mannar Thirumalai	
				Naicker College,	
				Madurai.	
5	Recent development in	National	Paper	Dept. of	2015
	Mathematics and its		Presented	Mathematics, The	
	Applications			Madura College,	
				Madurai	
6	Differential Equations for	National	Attented	Dept. of	2018
	dynamical systems			Mathematics, The	
				Madura College,	
				Madurai	
7	Fuzzy set theory and its	National	Attented	Research centre	2019
	Applications			&PG Department of	
				Mathematics, JA	
				college for women,	
				Periyakulam	

# F. Teaching Experience

Sl. No	Courses Taught	Name of the University / College / Institution	Duration	
1.	U.G.	Pasumpon Muthuramalinga Thevar College, Usilampatti	13 years 2 months	
2.	P.G. (M.A. / M.Sc., etc.,)	Nil	Nil	
3.	M.Phil.,	Nil	Nil	
4.	Any other	Nil	Nil	

# **Total Teaching Experience**

(a)	Under – Graduate (Pass)	:	13 Years and 2 Months
(b)	Under – Graduate (Hons)	:	<del>-</del>
(c)	Post – Graduate	:	<del>-</del>

## **G.** Innovations / Contributions in Teaching

a) Design of Curriculum : Question Papers setting to various

Autonomous Colleges

b) Teaching methods : Power Point Presentation and Smart

Classes

c) Laboratory experiments : Yes (Computer Laboratory)

d) Evaluation methods : Yes (Internal Assessments, Seminars,

Assignments)

 e) Preparation of resource material including books regarding materials laboratory
 Supplied to manuals etc.,

: Study materials Prepared and the Students

f) Remedial Teaching / Students Counseling

: Regularly receiving feedback from the (academic) students and taking remedial measures

g) Any other : Nil

#### H. Innovations / Contributions in Teaching

a) Please give a short account of your contribution to

 i) Community work such as values of national integration, Secularism, democracy, Socialism, Humanism, Peace, Scientific T4emporm flood

Nil

ii) National Literacy mission

b) Positions held / Leadership role played in organizations linked with extension work and National Service Scheme (NSS) or (NCC) in any other similar activity.

: NSS Programme Officer (2013- 2017)

#### I. Innovations / Contributions in Teaching

a) College / University / Institution

Please give a short account of your contribution to:

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b) Co-curricular Activities

: P. M. Thevar College, Usilampatti

NSS Officer – Unit No:86 Women's Student Councilor

 c) Enrichment of Campus life (Hostels, Sports, games, Cultural activities)

activities

d) Students welfare and discipline

: As a student councilor helping to

: Adviser to Sports, Cultural

stress Management

e) Membership / Participation in bodies Committees

: IQAC (Department Activities)-

		on Education and National Development		Member
	f)	Professional Organization of Teachers	:	Nil
J.	(a)	Membership or professional Bodies Committees in Education and National Development	:	Nil
	(b)	Editorship of Journals	:	Nil
K.		Any other information	:	Nil

Signature of the Teacher