

**Department of Mathematics (Shift-II)**

**II M.Sc Mathematics**

**Project Guide Allotment Details 2018-19**

<b>S.No</b>	<b>Staff</b>	<b>Student Register Numbers</b>	<b>Total Number of Students</b>
1.	Mr.S.U.Vasanth Kumar	BP170201, 202, 222, 227, 228	5
2.	Mrs.S. Savitha	BP170213, 215, 226, 236, 240	5
3.	Dr.B. Govindan	BP170204, 212, 217, 219, 220	5
4.	Dr.B. Chandrasekar	BP170230, 231, 232, 243, 244	5
5.	Dr.T.G. Gerly	BP170206, 208, 234, 238, 242	5
6.	Mr.M. Thanigajalam	BP170214, 216, 224, 239, 241	5
7.	Mr.D. Arun	BP170203, 205, 209, 211, 218, 223	6
8.	Ms. D. Saraswathi	BP170207, 210, 221, 229, 235	5

**M.Sc Project Students List (2018-19)**

<b>S.NO</b>	<b>REGNO</b>	<b>NAME</b>
1	BP170201	KAVITHA SHREE K
2	BP170202	SWATHY V
3	BP170203	NIVETHA S
4	BP170204	SYLVIA J
5	BP170205	ASWINI R
6	BP170206	DINESH A N
7	BP170207	DEVI S

8	BP170208	SRIPRIYA S
9	BP170209	KAVITHA S
10	BP170210	GAYATHRI M
11	BP170212	VINDHIYA U
12	BP170213	SHAJITHA BANU Z
13	BP170214	SATHYA P
14	BP170215	THIRUPATHI G
15	BP170216	PADMAVATHY G
16	BP170217	KEERTHANA S
17	BP170218	GAYATHRI S
18	BP170219	MUBASHEERABEGAM M
19	BP170220	PRITHIKA R
20	BP170221	JAYANTHI D
21	BP170222	MARUDHUPANDIYAN D
22	BP170223	MOHANAPRIYA R
23	BP170224	NANDHINI T
24	BP170226	SUGANYA V
25	BP170227	VINITHA D
26	BP170228	BRINDHA P
27	BP170229	MADHANRAJ R
28	BP170230	VINOTHINI G
29	BP170231	SENTHILKUMAR S
30	BP170232	VENKATESAN R
31	BP170234	SOUNDHARYA R
32	BP170235	BHAVANI S
33	BP170236	RANJANI R
34	BP170238	ANITHA K
35	BP170239	DIVYA BHARATHI R
36	BP170240	SELVAKUMAR M
37	BP170241	PACHAIYAMMAL D

38	BP170242	SUGANYA A
39	BP170243	RUBINI R
40	BP170244	ANITHAMARY N

**ONE PENDENT TETRA CYCLIC GRAPH  
STRUCTURES WITH MAXIMUM DEGREE  
NINE**

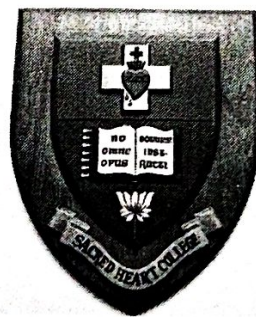
Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**K. KAVITHA SHREE**  
Reg. No. BP170201

Under the Guidance of  
**Dr. S.U.VASANTHA KUMAR**  
Assitant Professor and UG Head (Shift-II)



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

**ONE PENDENT TETRA CYCLIC GRAPH  
STRUCTURES WITH MAXIMUM DEGREE  
FIVE**

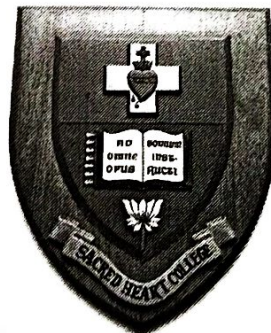
Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**V. SWATHY**  
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Under the Guidance of  
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**PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# RIEMANN ZETA FACTORIAL FUNCTION FOR MITTAG LEFFLER THEOREM

Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
NIVETHA. S  
Reg. No. BP170203

Under the Guidance of  
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Assistant Professor of Mathematics



PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

# GENERALIZED $\alpha$ - LAPLACE TRANSFORM OF SINE, COSINE AND HYPERBOLIC FUNCTIONS

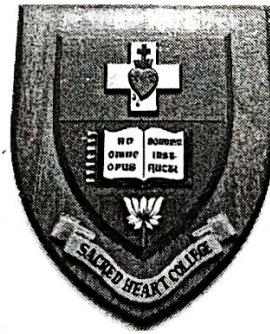
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

In partial fulfillment for the degree of  
MASTER OF SCIENCE IN MATHEMATICS

By  
SYLVIA.J  
Reg. No. BP170204

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P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

# RIEMANN ZETA FACTORIAL FUNCTION FOR NEGATIVE INDEX

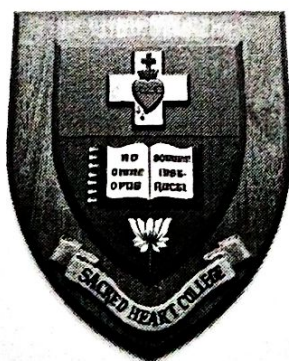
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
ASWINI. R  
Reg. No. BP170205

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PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019



**TRANSMISSION OF INFORMATION USING  
q-DIFFERENCE OPERATOR**

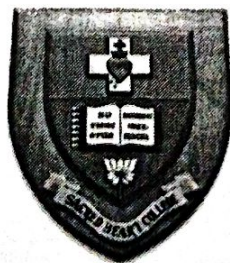
Project Submitted to  
**SACRED HEART COLLEGE (AUTONOMOUS)**

Affiliated to  
**Thiruvalluvar University**

in partial fulfilment for the degree of  
**MASTER OF SCIENCE IN MATHEMATICS**

By  
**DINESH. A. N**  
Reg.No: BP170206

Under the Guidance of  
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Assistant Professor in Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR – 635 601, VELLORE DT.**

**APRIL - 2019**

# FRACTIONAL FREQUENCY LAPLACE TRANSFORM BY INVERSE DIFFERENCE OPERATOR

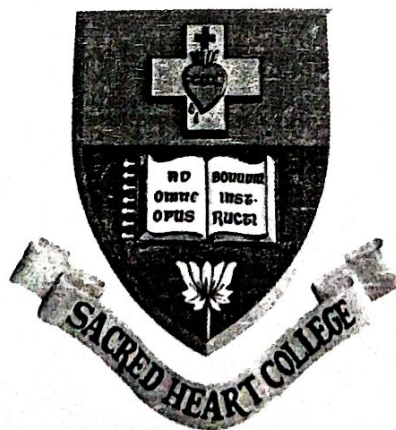
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
DEVI. S  
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Assistant Professor of Mathematics



P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

**GENERALIZED Q-ABEL'S LEMMA USING  
Q- DIFFERENCE OPERATOR**

Project Submitted to  
**SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE DT.**

Affiliated to the  
**THIRUVALLUVAR UNIVERSITY, VELLORE.**

In partial fulfillment for the award of the degree of  
**MASTER OF SCIENCE IN MATHEMATICS**

**BY**

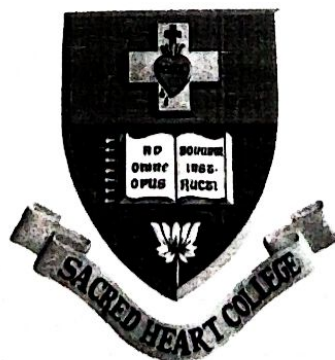
**SRIPRIYA S**

**REG NO: BP170208**

Under the Guidance of

**Dr.T. G.Gerly**

**Assistant Professor of Mathematics**



**P.G AND RESEARCH DEPARTMENT OF MATHEMATICS,  
SACRED HEART COLLEGE (AUTONOMOUS),  
TIRUPATTUR, VELLORE DT- 635 601**

**MARCH - 2019**

# RIEMANN ZETA FACTORIAL FUNCTION FOR POSITIVE INDEX AND FRACTIONAL ORDER

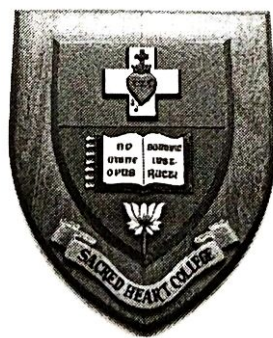
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
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PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

# **FRACTIONAL FREQUENCY FOURIER TRANSFORM AND ITS CONVALUTION**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**GAYATHRI. M**  
Reg. No. BP170210

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**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)**

**TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# $\beta$ -TRIANGULAR NUMBERS FOR POLYNOMIAL AND POLYNOMIAL FACTORIAL

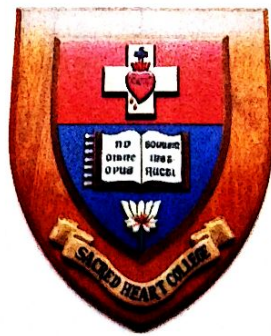
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
VINDHIYA U  
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P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

# **NEW ALGORITHM FOR ENCRYPTION BASED ON KEYWORD USING VIGENERE CIPHER**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**SHAJITHA BANU .Z**

Reg. No. BP170213

Under the Guidance of  
**Mrs. S. SAVITHA, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# **APPLICATIONS OF CETD MATRIX AND TOPSIS METHOD USING PENTAGONAL FUZZY NUMBER IN MEDICAL FIELD**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**SATHYA.P**  
Reg. No. BP170214

Under the Guidance of  
**Mr.M.Thanigajalam,M.Sc.,M.Phil.,B.Ed.**  
Assitant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.  
MARCH - 2019**



# **NEW ALGORITHM FOR ENCRYPTION BASED ON SUBSTITUTION CIPHER USING BINARY CODES**

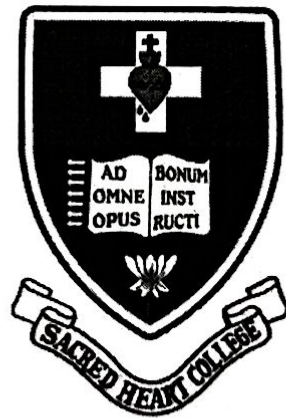
Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**THIRUPATHI G**  
Reg. No. BP170215

Under the Guidance of  
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Assistant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.  
MARCH - 2019**

# **A FUZZY ANALYSIS ON REAL LIFE AND PRACTICE**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**G. PADMAVATHY**  
Reg. No. BP170216

Under the Guidance of  
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Assitant Professor (Shift-II)



**PG AND RESEARCH DEPARTMENT OF MATHEMATICS**  
**SACRED HEART COLLEGE (AUTONOMOUS)**  
**TIRUPATTUR, VELLORE (DT) - 635 601.**  
**MARCH - 2019**

**GENERALIZED LAPLACE TRANSFORM AND ITS  
APPLICATIONS**

**Project Submitted to  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE DT.**

**Affiliated to the  
THIRUVALLUVAR UNIVERSITY, VELLORE.**

**In partial fulfillment for the award of the degree of  
MASTER OF SCIENCE IN MATHEMATICS**

**BY**

**KEERTHANA S**

**REG NO: BP170217**

**Under the Guidance of**

**Dr.B.GOVINDAN,M.Sc.,M.Phil.,B.Ed.,Ph.d.,**

**Assistant Professor in Mathematics**



**MARCH - 2019**

**P.G AND RESEARCH DEPARTMENT OF MATHEMATICS,**

**FINITE SUMMATION FORMULA BY  
FOURTH ORDER FIBONACCI  
DIFFERENCE OPERATOR**

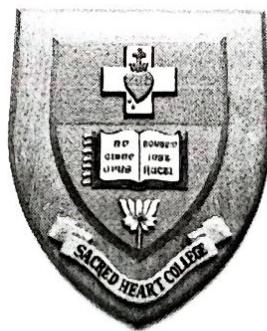
Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

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**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

by  
**GAYATHRI .S**  
Reg. No. BP170218

Under the Guidance of  
**Mr.D.ARUN**  
Assitant Professor of Mathematics



**PG. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# **GDFT OBTAINED BY DIFFERENCE OPERTAOR**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

In partial fulfillment for the degree of  
**MASTER OF SCIENCE IN MATHEMATICS**

By  
**MUBASHEERABEGAM.M**

Reg. No. BP170219

Under the Guidance of  
**Dr.B.GOVINDAN, M.Sc., M.Phil., B.Ed., Ph.D.**  
Assistant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# GENERALIZED $k$ - LAPLACE TRANSFORM OF POLYNOMIAL AND POLYNOMIAL FACTORIAL

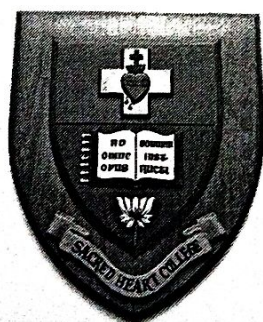
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
PRITHIKA R  
Reg. No. BP170220

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Assistant Professor of Mathematics



P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

# **FRACTIONAL FREQUENCY SUMUDU AND LAPLACE-FIBONACCI TRANSFORM**

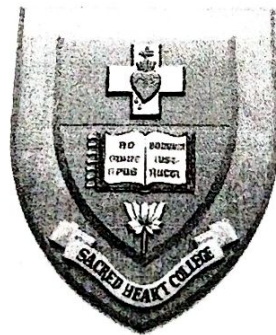
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**Sacred Heart College (Autonomous), Tirupattur**

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**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**JAYANTHI D**  
Reg. No. BP170221

Under the Guidance of  
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Assitant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# ONE PENDENT TETRA CYCLIC GRAPH STRUCTURES WITH MAXIMUM DEGREE FOUR

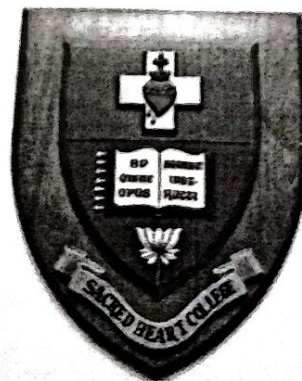
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
D. MARUDHUPANDIYAN  
Reg. No. BP170222

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Assitant Professor of Mathematics



P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019



# RIEMANN ZETA FACTORIAL FUNCTION FOR POSITIVE INDEX

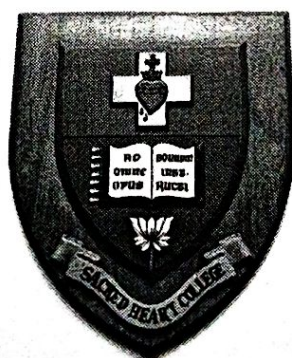
Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
MASTER DEGREE IN MATHEMATICS

By  
MOHANAPRIYA . R  
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Under the Guidance of  
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PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.

MARCH - 2019

# **RANKING SERIALS USING FUZZY VIKOR TECHNIQUE**

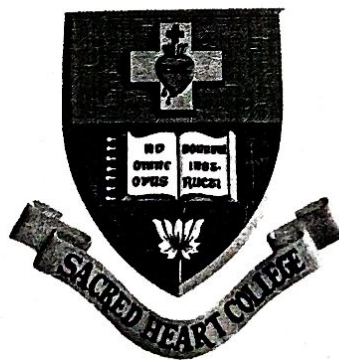
Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**NANDHINI.T**  
Reg. No. BP170224

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**Mr. M. THANIGAJALAM ,M.sc.M.Phil,B.Ed**  
Assistant Professor of Mathematics



**PG AND RESEARCH DEPARTMENT OF MATHEMATICS**  
**SACRED HEART COLLEGE (AUTONOMOUS)**  
**TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# **NEW ALGORITHM FOR ENCRYPTION BASED ON PLAYFAIR CIPHER USING THREE LETTERS AND FOUR LETTERS**

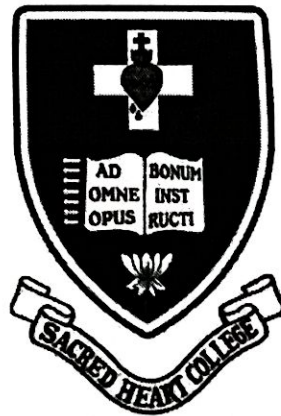
Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**SUGANYA.V**  
Reg. No. BP170226

Under the Guidance of  
**Mrs. S. SAVITHA, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

**TETRA CYCLIC GRAPH STRUCTURES  
WITH MAXIMUM DEGREE SEVEN AND  
EIGHT**

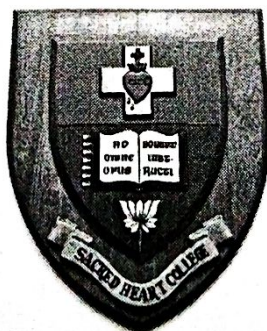
Project Submitted to  
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**Thiruvalluvar University**

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**MASTER DEGREE IN MATHEMATICS**

By  
**D . VINITHA**  
Reg. No. BP170227

Under the Guidance of  
**Dr. S.U. VASANTHA KUMAR**  
Assitant Professor and UG Head (Shift-II)



**PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.  
MARCH - 2019**

# **TETRA CYCLIC GRAPH STRUCTURES WITH MAXIMUM DEGREE SIX**

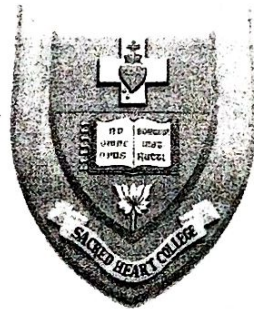
Project Submitted to  
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Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**P . BRINDHA**  
Reg. No. BP170228

Under the Guidance of  
**Dr. S.U.VASANTHA KUMAR**  
Assitant Professor and UG Head (Shift-II)



**PG AND RESEARCH DEPARTMENT OF MATHEMATICS  
SACRED HEART COLLEGE (AUTONOMOUS)  
TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# **DISCRETE HEAT EQUATION MODEL WITH SHIFT VALUES**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

Affiliated to  
**Thiruvalluvar University**

in partial fulfillment for the degree of  
**MASTER DEGREE IN MATHEMATICS**

By  
**MADHANRAJ. R**  
Reg. No. BP170229

Under the Guidance of  
**Miss. D. Saraswathi**  
Assistant Professor of Mathematics



**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS**  
**SACRED HEART COLLEGE (AUTONOMOUS)**  
**TIRUPATTUR, VELLORE (DT) - 635 601.**

**MARCH - 2019**

# DISCRETE HEAT EQUATION BY PARTIAL FIBONACCI DIFFERENCE OPERATORS WITH SEVEN VARIABLES

Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur

Affiliated to  
Thiruvalluvar University

in partial fulfillment for the degree of  
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MARCH- 2019

**OPTIMAL CUSTOMER BEHAVIOUR IN OBSERVABLE AND  
BALKING QUEUEING SYSTEM**

Project Submitted to  
**Sacred Heart College (Autonomous), Tirupattur**

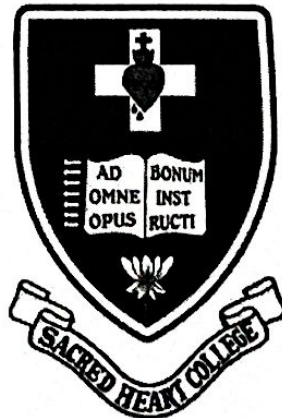
Affiliated to  
**Thiruvalluvar University**

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**M/G/1 QUEUEING MODEL FOR PREEMPTIVE  
PRIORITY QUEUE**

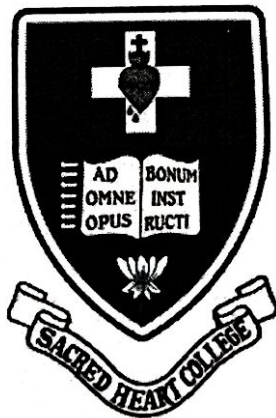
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# OSCILLATION THEORY OF q-DIFFERENCE EQUATION

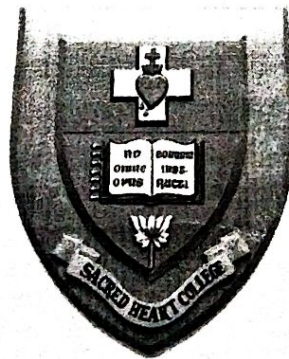
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# MODELLING WITH FRACTIONAL LAPLACE AND EXTORIAL TRANSFORM

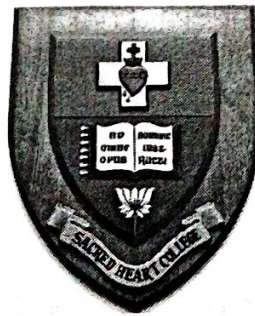
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# **CRYPTANALYSIS WITH ONE TIME PAD USING TRI AND TETRAGRAPH TRANSFORMATIONS**

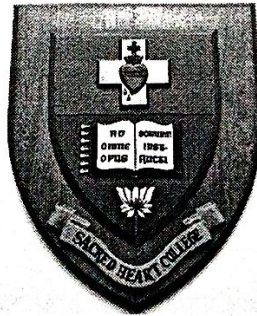
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**TRANSFORMING NON-LINEAR  
Q-DIFFERENCE EQUATION TO LINEAR  
Q-DIFFERENCE EQUATION**

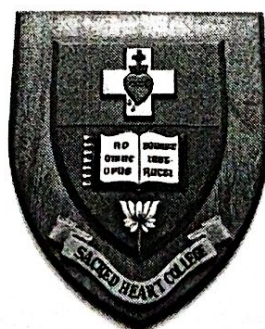
Project Submitted to  
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**MARCH - 2019**

**APPLICATIONS OF CETD AND TOPSIS METHOD USING  
PENTAGONAL FUZZY NUMBER IN INFORMATION FIELD**

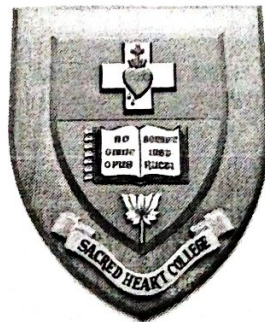
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**MARCH - 2019**

**NEW ALGORITHM FOR ENCRYPTION AND  
DECRYPTION BASED ON THE MATRIX OF  
TRANSFORMATION ROTATION AT AN ANGLE  $\theta$**

Project Submitted to  
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**P.G. AND RESEARCH DEPARTMENT OF MATHEMATICS  
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# **RANKING COLLEGES USING FUZZY VIKOR TECHNIQUE**

**Project Submitted to  
Sacred Heart College (Autonomous), Tirupattur**

**Affiliated to  
Thiruvalluvar University**

**in partial fulfillment for the degree of  
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MARCH - 2019**



SOLUTION OF GAMBLER'S RUIN PROBLEM USING  
 $q$ -DIFFERENCE OPERATOR

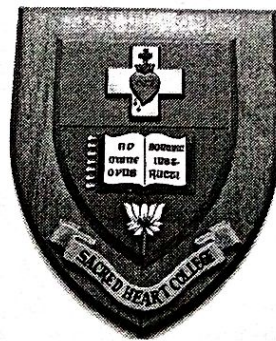
Project Submitted to  
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MARCH - 2019

# QUEUEING MODEL FOR JOCKEYING

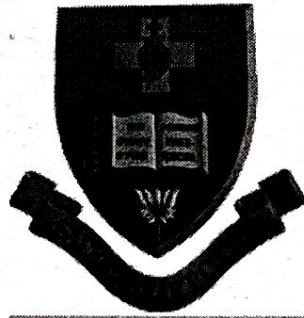
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in partial fulfillment for the degree of  
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# **QUEUEING MODEL FOR CATASTROPHICAL EVENTS**

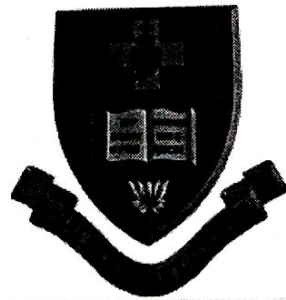
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**MARCH - 2019**