



**TRINITY COLLEGE FOR WOMEN NAMAKKAL**  
**NAAC –SSR CYCLE-I**

**1.3 CURRICULUM ENRICHMENT**


**1.3.2 PROJECT WORK/ FIELD WORK/INTERNSHIPS**

**2019-2020**

Mrs.G.NITHYA, M.Com., M.Phil., D.Co.op., M.A.(Yoga), NET., M.B.A.,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College For Women,  
Namakkal.

## CERTIFICATE

This is to certify that the project work entitled "A STUDY ON CUSTOMERS' BRAND PREFERENCE TOWARDS SELECT SMART PHONES IN NAMAKKAL TOWN" is a Bonafide record of research work done by R.ABIRAMI (Reg.No:17UCM1801), P.KALAIVANI (17UCM1812), M.KARTHIKA (17UCM1813), V.MONISHA (17UCM1822), R.NANDHINI (17UCM1823), J.ROOBA (17UCM1830), D.SARANYA(17UCM1833) during the period 2019-2020 in partial fulfillment of the requirement for the award of the degree of **BACHELOR OF COMMERCE** and the project has not previously formed the basis for the award of any degree, diploma, fellowship or other titles and this is the original work of the candidate under my guidance.



SIGNATURE OF THE

HEAD OF THE DEPARTMENT  
**Head**

PG and Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002



SIGNATURE OF THE GUIDE

Viva-voce examination held on 25.10.2019



INTERNATIONAL EXAMINER

**G. NITHYA**, M.Com., M.Phil., M.B.A., NET.,  
Assistant Professor  
PG & Research Department of Commerce  
Trinity College for Women, Namakkal.



EXTERNAL EXAMINER

**Dr. N. SENTHIL KUMAR**,  
M.Com, MBA, M.Phil., Ph.D.,  
Asso. Professor of Commerce,  
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VELUR (Namakkal)-638 182.

Dr.L.TAMILSELVI, M.Com., M.Phil., M.B.A.,Ph.D.,

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.


### CERTIFICATE

This is to certify that the project report entitled "A STUDY OF CUSTOMER SATISFACTION TOWARDS IFB WASHING MACHINE IN NAMAKKAL TOWN" is a bonafide record of research work done by V.BHARATHI (Reg.No:17UCM1802) C.BHUVANESWARI (Reg.No:17UCM1803), M.DHIVI SRI (Reg.No:17UCM1806), D.JEEVITHA (Reg.No:17UCM1811), S.SATHYA (Reg.No:17UCM1836), K.SHALINI (Reg.No:17UCM1838), R.SINDHU (Reg.No:17UCM1842) during the period 2019 in partial fulfillment of requirement for the award of the DEGREE OF BACHELOR OF COMMERCE and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidate under my guidance.

  
SIGNATURE OF THE

HEAD OF THE DEPARTMENT  
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SIGNATURE OF THE GUIDE

Dr. L. TAMILSELVI, M.Com., M.Phil., Ph.D.,  
Assistant Professor  
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Trinity College for Women, Namakkal.

Viva – voce Examination held on 25.10.2019

  
INTERNAL EXAMINER

Dr. L. TAMILSELVI, M.Com., M.Phil., Ph.D.,  
Assistant Professor  
PG & Research Department of Commerce  
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EXTERNAL EXAMINER

Dr. N. SENTHIL KUMAR,  
M.Com MSA, M.Phil., Ph.D.,  
Asso. Professor of Commerce,  
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Mrs. K.AMUTHA, M.Com, M.Phil.,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

### CERTIFICATE

This is to certify that the project report entitled "A STUDY OF CONSUMER ATTITUDE TOWARDS WASHING POWDER IN NAMAKKAL TOWN" is a bonafide record of research work done by S. JAYASRI (17UCM1810), R.MATHUMITHA (17UCM1820), M.PARITHA (17UCM1825), T.RANJANI (17UCM1828), K.SHILPA (17UCM1840), N.SNEKA (17UCM1845) during the period 2019 to 2020 in partial fulfillment of requirements for the award of the **DEGREE OF BACHELOR OF COMMERCE** and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidate under my guidance.

  
SIGNATURE OF THE


HEAD OF THE DEPARTMENT  
Head

PG and Research Department of Commerce,  
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Namakkal - 637 002

  
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Viva – voce Examination held on 25.10.2019

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER  
Dr. N. SENTHIL KUMAR,  
M.Com M.Phil. Ph.D.,  
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VELUR (Namakkal)-638 182.



Dr.M.SASIKALA, M.Com., M.Phil., M.B.A., Dip (yoga)., SET., Ph.D.,

Assistant Professor,

PG & Research Department of Commerce,

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### CERTIFICATE

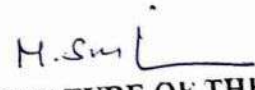
This is to certify that the project report entitled "A STUDY OF CUSTOMER SATISFACTION TOWARDS WHIRPOOL REFRIGERATOR IN NAMAKKAL TOWN" is a bonafide record of research work done by M.BRINDHA (Reg.No:17UCM1804), R.RANJITHA (Reg.No:17UCM1829), M.SANTHIYA (Reg.No:17UCM1831), S.SHANMUGIL (Reg.No:17UCM1839), S.SOUNDARYA (Reg.No:17UCM1846), K.SWETHA (Reg.No:17UCM1850) during the period 2019-2020 in partial fulfillment of requirements for the award of the DEGREE OF BACHELOR OF COMMERCE and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidate under my guidance.

  
SIGNATURE OF THE

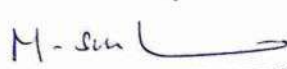
HEAD OF THE DEPARTMENT

Head


PG and Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

  
SIGNATURE OF THE GUIDE  
M. SASIKALA, M.Com., M.Phil., MBA,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women, Namakkal.

Viva - Voce Examination held on 25.10.2019

  
INTERNAL EXAMINER

M. SASIKALA, M.Com., M.Phil., MBA,  
Assistant Professor,  
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EXTERNAL EXAMINER  
Dr. N. SENTHIL KUMAR,  
M.Com., MBA, M.Phil., Ph.D.,  
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**Mrs. M. UMAMAGESWARI, M.Com., M.Phil., PGDCA**

Assistant Professor,

Department of commerce,

Trinity College for Women,

Namakkal.

### **CERTIFICATE**

This is to certify that the **PROJECT REPORT** entitled "**A STUDY OF CONSUMER SATISFACTION TOWARDS SAKTHI MASALA PRODUCTS IN NAMAKKAL TOWN**" is a bonafide record of research work done by **L.DHANAPRIYA (17UCM1805), M.KOWSALYA (17UCM1817), S.NIKILA (17UCM24), N.RANJANI (17UCM1827), P.SINDHUJA (17UCM1843)** during the period 2019 to 2020 in partial fulfilment of the requirements for the award of the **DEGREE OF BACHELOR OF COMMERCE** and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidates under my guidance.



**SIGNATURE OF THE**

**HEAD OF THE DEPARTMENT**

**Head**

PG and Research Department of Commerce,  
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**SIGNATURE OF THE GUIDE**

**M.UMAMAGESWARI, M.Com., M.Phil., PGDCA**

Assistant Professor

PG & Research Department of Commerce,  
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**Viva – Voce Examination held on 25.10.2019**



**INTERNAL EXAMINER**

**M.UMAMAGESWARI, M.Com., M.Phil., PGDCA,**  
Assistant Professor  
PG & Research Department of Commerce  
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25/10/19

**Dr. N. SENTHIL KUMAR,**

M.Com., MBA, M.Phil., Ph.D.,  
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**Dr. M. SASIKALA**, M.Com., M.Phil., M.B.A., Dip (Yoga), SET., Ph.D.,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

### CERTIFICATE

This is to certify that the project work entitled "**A STUDY ON CONSUMER BUYING BEHAVIOUR TOWARDS LED TELEVISION WITH REFERENCE TO PANASONIC IN NAMAKKAL TOWN**" is a Bonafied record of research work done by **R.HEMALATHA (17UCM1808), M.JAYASRI (17UCM1809), K.KAVIYA(17UCM1814), J.MAGESHWARI (17UCM1818), P.PAVITHRA (17UCM1826), S.SUDHA (17UCM1848), R.YOGALAKSHMI (17UCM1853)** during the period 2019-2020 in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF COMMERCE** and the project has not previously formed the basis for the award of any degree, diploma, fellowship or other titles and this is the original work of the candidate under more my guidance.

  
SIGNATURE OF THE

HEAD OF THE DEPARTMENT

Head

PG and Research Department of Commerce,  
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SIGNATURE OF THE GUIDE

**M. SASIKALA**, M.Com., M.Phil., MBA.,

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Viva-voce examination held on 25.10.2019

  
INTERNAL EXAMINER

**M. SASIKALA**, M.Com., M.Phil., MBA.,

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EXTERNAL EXAMINER

**Dr. N. SENTHIL KUMAR**,

M.Com. MBA. M.Phil. Ph.D.,  
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**Dr.G. SELVALAKSHMI,**

**M.Com., M.Phil., M.B.A., Ph.D., Dip (yoga)., SET.,**

Assistant Professor and Head,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

### **CERTIFICATE**

This is to certify that the **PROJECT REPORT** entitled "**A STUDY ON USERS SATISFACTION TOWARDS TWO WHEELERS WITH SPECIAL REFERENCE TO TVS JUPITER IN NAMAKKAL TOWN**" is a bonafide record of research work done by **G.KEERTHANA ( 17UCM1815 ), S.KEERTHIGA ( 17UCM1816 ), V.MANIMEKALAI ( 17UCM1819 ), S.MENAKAGOWRI ( 17UCM1821 ), M.SATHIYA (17UCM1835 ), B.SIBIYA ( 17UCM1841 ), R.SINDHUMATHI ( 17UCM1844 )** during the period 2019 to 2020 in partial fulfilment of the requirements for the award of the **DEGREE OF BACHELOR OF COMMERCE** and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidates under my guidance.

  
SIGNATURE OF THE

HEAD OF THE DEPARTMENT


**Head**

PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

  
SIGNATURE OF THE GUIDE

Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D.,  
Assistant Professor  
PG & Research Department of Commerce  
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Viva – Voce Examination held on 25.10.2019

  
INTERNAL EXAMINER

Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D.,  
Assistant Professor  
PG & Research Department of Commerce  
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EXTERNAL EXAMINER

**Dr. N. SENTHIL KUMAR,**  
M.Com., M.B.A., M.Phil., Ph.D.,  
Asso. Professor of Commerce,  
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VELUR (Namakkal)-638 182

**Mrs. D. VALARMATHI, M.COM., M.Phil., M.B.A.,B.Ed.,**

Assistant Professor,

Department of Commerce,

Trinity college for women,

Namakkal-637002.

### **CERTIFICATE**

This is to certified that this project work entitle "A STUDY OF BRAND PREFERENCE TOWARDS SELECT BALL POINT PENS WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" is a bonafide record of research work donebyS.ABITHA (Reg.No.17UCC1478), P.GOWTHAMI (Reg.No.17UCC1489), S.ISWARIYA (Reg.No.17UCC1493), C.KIRUTHIKA (Reg.No.17UCC1499), P.MADHUPRIYA (Reg.No.17UCC1504), R.MALAVIKA (Reg.No.17UCC1505), S.SUBARANJANI (Reg.No.17UCC1519) during the period of 2019-2020 in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF COMMERCE WITH COMPUTER APPLPLICATION.**

  
**SIGNATURE OF THE**

**HEAD OF DEPARTMENT**

Head

PG and Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

  
**SIGNATURE OF**

**THE GUIDE**

**Mrs. D. VALARMATHI, M.Com.,M.Phil.,**  
Assistant Professor  
PG & Research Department of Commerce  
Trinity College For Women, Namakkal.

Viva – voce examination held on .25.10.2019.....

  
**INTERNAL EXAMINER**

**Mrs. D. VALARMATHI, M.Com.,M.Phil.,**  
Assistant Professor  
PG & Research Department of Commerce  
Trinity College For Women, Namakkal.

  
**EXTERNAL EXAMINER**

**Dr. N. SENTHIL KUMAR,**  
M.Com.,MBA.,M.Phil.,Ph.D.,  
Asso. Professor of Commerce,  
Kandaswami Kandar's College,  
VELUR (Namakkal)-638 182.

Mrs. G.SATHIYA SANGARI M.com.,M.Phil., Dip (Yoga)., SET, NET

Assistant Professor,  
Department of Commerce,  
Trinity College for Women,  
Namakkal-637002.

### CERTIFICATE

This is certify that the project entitled "A STUDY ON CONSUMER BEHAVIOUR TOWARDS HEALTH DRINKS IN NAMAKKAL TOWN "submitted to the Periyar University in partial fulfilment of the requirements for the award of the degree of Bachelor of Commerce is a record of original research work done by M.JOTHIGA (Reg.No.17UCC1494), J.KAMALI (Reg. No. 17UCC1496), S.KALAIYARASI (Reg. No. 17UCC1495),S.KIRUTHIKA(Reg.No.17UCC1501),K.LAVANYA,(Reg.No.17UCC1503) V.MYTHILI (Reg. No. 17UCC1507), B.SANTHIYA(Reg.No.17UCC1514) during the period of his study 2017 – 2020 in the Department of Trinity College for women, Namakkal under my guidance and the dissertation has not formed the basis for award of any degree, diploma, associate ship, fellowship or other title and this is original work of the candidate under my guidance.

Place: Namakkal

Date: 25.10.19

Signature of the

Head of the Department  
Head

PG and Research Department of Commerce  
Viva Voice Examination held on 25.10.19.  
Trinity College for Women,  
Namakkal - 637 002

Internal Examiner

Signature of the Guide

External Examiner

G. SATHIYA SANGARI, M.Com., M.Phil., SET., NET.,  
Assistant Professor  
PG and Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

Dr. N. SENTHIL KUMAR,  
M.Com., MBA., M.Phil., Ph.D.,  
Asso. Professor of Commerce,  
Kandaswami Kandar's College,  
VELUR (Namakkal)-638 182.



**Dr.L.TAMILSELVI ,M.COM., M. Phil., M .B.A., Ph.D**

**Assistant Professor ,**

**PG and Research Department of Commerce,**

**Trinity College for Women,**

**Namakkal.**

### **CERTIFICATE**

This is to certify that the PROJECT REPORT entitled “ CUSTOMERS’ SATISFACTION TOWARDS HERO PLEASURE IN NAMAKKAL TOWN” is a bonafide record of research work done by S. DIVYA (Reg. No. 17UCC1487), P.S. KANISHKA (Reg. No. 17UCC1497), R. MENAKA (Reg. No. 17UCC1506), M. RUTHRA (Reg. No. 17UCC1512), S. SUBALAKSHMI (Reg. No. 17UCC1518) during the period 2017 -2020 in partial fulfillment of the requirements for the award of the DEGREE OF BACHELOR OF COMMERCE WITH COMPUTER APPLICATION and the project has not previously formed the basis for the award of any other Degree, Diploma, Fellowship or other titles, and this is the original work of the candidate under my guidance.

  
**SIGNATURE OF THE**


**HEAD OF THE DEPARTMENT**

**Head**  
PG and Research Department of Commerce,  
Trinity College for Women,  
Namakkal-627 002

**Viva – voce Examination held on . 25.10.2019 .....**

  
**SIGNATURE OF THE GUIDE**

**Dr. L. TAMILSELVI, M.Com., M.Phil., Ph.D.,**  
Assistant Professor  
PG & Research Department of Commerce  
Trinity College for Women, Namakkal.

  
**INTERNAL EXAMINER**

**Dr. L. TAMILSELVI, M.Com., M.Phil., Ph.D.,**  
Assistant Professor  
PG & Research Department of Commerce  
Trinity College for Women, Namakkal.


  
**EXTERNAL EXAMINER**

**Dr. N. SENTHIL KUMAR,**  
M.Com M.B.A. M.Phil. Ph.D.,  
Asso. Professor of Commerce,  
Kandaswami Kandam's College,  
VELUR (Namakkal)-625 182.

**Mrs. G.NITHYA, M.Com., M.Phil., D.Co.op., M.A (Yoga)., NET., M.B.A.,**  
Assistant Professor,  
PG and Research Department of Commerce,  
Trinity College For Women,  
Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled “ **USER SATISFACTION TOWARDS LEVER AYUSH AYURVEDIC SHAMPOO IN NAMAKKAL TOWN – A STUDY**” is a bonafide record of research work done by **M.DEEPIKA (Reg.No: 17UCC1482), S.DHIVYA (Reg.No: 17UCC1486), B.HARINI (Reg.No:17UCC1490), A.HEMAPRIYA (Reg.No:17UCC1491), S.KEERTHNA (Reg.No:17UCC1498), S.SALINI (Reg.No:17UCC1513)** during the period 2019-2020 in partial fulfilment of the requirement for the award of the **DEGREE OF BACHELORE OF COMMERCE WITH COMPUTER APPICATION** and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidate under my guidance.


  
SIGNATURE OF THE  
HEAD OF THE DEPARTMENT  
**Head**

**PG and Research Department of Commerce,**  
**Trinity College for Women,**  
**Namakkal - 637 002**

  
SIGNATURE OF THE GUIDE

**G. NITHYA, M.Com., M.Phil., M.B.A., NET.,**  
Assistant Professor  
**PG & Research Department of Commerce**  
**Trinity College for Women, Namakkal.**

Viva – voce examination held on 25.10.2019

  
INTERNAL EXAMINER

**G. NITHYA, M.Com., M.Phil., M.B.A., NET.,**  
Assistant Professor  
**PG & Research Department of Commerce**  
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EXTERNAL EXAMINER


**Dr. N. SENTHIL KUMAR,**  
M.Com MBA M Phil Ph.D.,  
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Kandaswami Kalanagar,  
VELUR (Namakkal) Dist. - 637 002.



**Dr.G. SELVALAKSHMI, M.Com., M.Phil., MBA., Ph.D., Dip (yoga)., SET.,**  
Assistant Professor and Head,  
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Trinity College for Women(Arts & Science)  
Namakkal.

### **CERTIFICATE**

This is to certify that the **PROJECT REPORT** entitled "**A STUDY OF CUSTOMERS SATISFACTION TOWARDS SUNFEAST BISCUITS IN NAMAKKAL TOWN**" is a bonafide record of research work done by **P. BHARATHI (Reg.No:17UCC1480), M. INDUMATHI (Reg.No: 17UCC1492), K. R. NANDHINI (Reg.No:17UCC1508), R. POORNIMA (Reg.No: 17UCC1510), T. SOUNDHARYA (Reg.No:17UCC1516), S. SOWMIYA (Reg.No: 17UCC1517)** during the period 2019 to 2020 in partial fulfilment of the requirements for the award of the **DEGREE OF BACHELOR OF COMMERCE** and the project has not previously formed the basis for the award of any other degree, diploma, fellowship or other titles and this is the original work of the candidates under my guidance.

  
**SIGNATURE OF THE**  
**HEAD OF THE DEPARTMENT**

Head  
PG and Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 003

Viva – Voce Examination held on 25.10.2019

  
**SIGNATURE OF THE GUIDE**

**Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D.,**  
Assistant Professor  
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Trinity College For Women, Namakkal.

  
**INTERNAL EXAMINER**

**Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D.,**  
Assistant Professor  
PG & Research Department of Commerce  
Trinity College For Women, Namakkal.

  
**EXTERNAL EXAMINER**

**Dr. N. SENTHIL KUMAR,**  
M.Com MBA M.Phil, Ph.D.,  
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**Dr.R.DHAVAMANI, M.A., M.Phil., Ph.D.,**  
**Head of the department and Associate Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **THEMATIC STUDY OF CHITRA BANERJEE DIVAKARUNI'S *THE PALACE OF ILLUSIONS***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. P. ABIRAMI** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



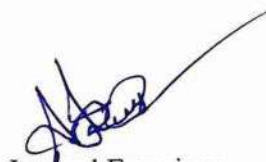
Signature of the

Head of the Department




Signature of the

Guide /Supervisor



Internal Examiner



External Examiner

**Mrs. G. KANNAGI, M.A., B.Ed.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**


### **CERTIFICATE**

This is to certify that the project entitled **TRANSFORMATION AND RECONCILIATION IN MARGARET LAURENCE'S *THE STONE ANGEL*** submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. J. CAMELIYA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department




Signature of the

Guide /Supervisor



Internal Examiner



External Examiner

**Mrs. S. LATHA, M.A., B.Ed., M.Phil.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **THE QUEST FOR FEMALE IDENTITY IN SHASHI DESHPANDE'S *A MATTER OF TIME***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. S. DEEPA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department



Signature of the

Guide /Supervisor



Internal Examiner



External Examiner



**Ms. S. POORNIMA, M.A, M.Phil., SET, NET,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **WOMEN AS A SMILING SHADOW VS STRONG SELF IN MARGARET ATWOOD'S *SURFACING***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. P. DHARANI** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department




Signature of the

Guide /Supervisor



Internal Examiner



External Examiner

**Mrs. D. KAVITHA, M.A., B.Ed., M.Phil.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **INTERCASTE MARRIAGE IN VIJAY TENDULKAR'S KANYADAAN**, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. S. GEETHA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department



Signature of the

Guide /Supervisor



Internal Examiner



External Examiner

**Mrs. A. REVATHI, M.A., M.Phil., B.Ed.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **THE THEME OF CONJUGAL SCHISM IN SUDHA MURTHY'S *HOUSE OF CARDS***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. S.M. ILAKKIA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



Signature of the

Head of the Department



Signature of the

Guide/Supervisor



Internal Examiner



External Examiner



**Ms. L.DEEPIKA, M.A., B.Ed., M.Phil.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

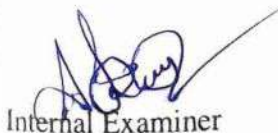
### **CERTIFICATE**

This is to certify that the project entitled *JASMINE: A REBELLIOUS LUMINARY*, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. A. IRFANA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



Signature of the

Head of the Department

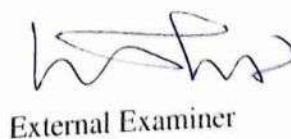


Internal Examiner



Signature of the

Guide /Supervisor



External Examiner

**Ms. L. DEEPIKA, M.A., B.Ed., M.Phil.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **THE LOVE AND CULTURAL HERITAGE IN CHETAN BHAGAT'S 2 STATES: THE STORY OF MY MARRIAGE**, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. B.KIRUTHIGA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



Signature of the

Head of the Department

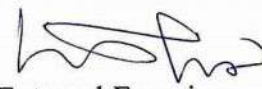


Signature of the

Guide /Supervisor



Internal Examiner




External Examiner

**Mrs. R. BANUPRIYA, M.A., B.Ed.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**


### **CERTIFICATE**

This is to certify that the project entitled **SENSE OF TRANSGRESSION IN *THE SCARLET LETTER* BY NATHANIEL HAWTHORNE**, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. P. KIRUTHIGA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



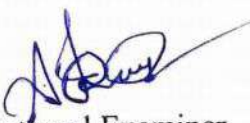
Signature of the

Head of the Department




Signature of the

Guide /Supervisor



Internal Examiner




External Examiner



**Mrs. P. UMA BHARATHI, M.A., B.Ed., SET,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**


This is to certify that the project entitled **CORRUPTION IN EDUCATIONAL FIELD IN CHETAN BHAGAT'S REVOLUTION 2020** submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. S. MENAKA SREE** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.

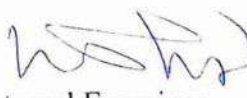
  
Signature of the

Head of the Department

  
Signature of the

Guide /Supervisor


  
Internal Examiner

  
External Examiner

**Ms. S. BHARATHI, M.A., B.Ed., M.Phil., SET., NET.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**


This is to certify that the project entitled **MAGICAL REALISM IN ISABEL ALLENDE'S *THE HOUSE OF THE SPIRITS***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. S. NANDHINI** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.


  
Signature of the

Head of the Department

  
Signature of the

Guide /Supervisor

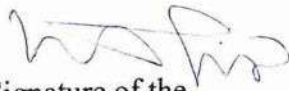
  
Internal Examiner

  
External Examiner


**MS. S. MALARKODI M.A., B.Ed., M.Phil, SET,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

**CERTIFICATE**


This is to certify that the project entitled **A COMPLETE STUDY OF RACISM AND CULTURAL CLASHES IN HARPER LEE'S *TO KILL A MOCKINGBIRD***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. A. NILOFER** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.


  
Signature of the

Head of the Department

  
Signature of the

Guide /Supervisor

  
Internal Examiner

  
External Examiner



**Ms. S. BHARATHI, M.A., B.Ed., M.Phil., SET., NET.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **FEMININE PERSPECTIVE IN ANITA DESAI'S *CLEAR LIGHT OF DAY***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. R. POOMATHI** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



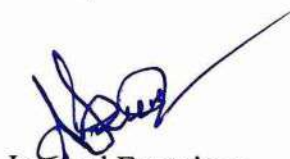
Signature of the

Head of the Department



Signature of the

Guide /Supervisor



Internal Examiner



External Examiner

**Dr.R.DHAVAMANI, M.A. M.Phil., Ph.D.,**  
**Head and Associate Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **A STUDY OF LOVE, MARRIAGE, AND CULTURE IN VIKRAM SETH'S *A SUITABLE BOY***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. G. PREMITHA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.





Signature of the

Head of the Department

for   
Signature of the


Guide /Supervisor

  
Internal Examiner  
External Examiner

**Mrs. G. KANNAGI, M.A., B.Ed.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**


### **CERTIFICATE**

This is to certify that the project entitled **THE INTERNAL LIFE OF A HUMAN BEING IN SAUL BELLOW'S *SEIZE THE DAY***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. A. PRIYANKA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department



Signature of the

Guide /Supervisor



Internal Examiner




External Examiner



**Mrs. S. LATHA, M.A., B.Ed., M.Phil.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**


### **CERTIFICATE**

This is to certify that the project entitled **THE BREATH OF MUSIC IN TONI MORRISON'S JAZZ**, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. M. REKHA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department



Signature of the

Guide /Supervisor



Internal Examiner



External Examiner

**Ms. S. POORNIMA, M.A., M.Phil., SET, NET,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **AN EMBLEM OF A NEW WOMAN'S EMANCIPATION IN RAMA METHA'S *INSIDE THE HAVELI***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. S. SHARMILA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.



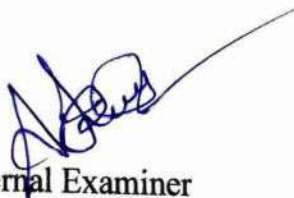
Signature of the

Head of the Department



Signature of the

Guide /Supervisor



Internal Examiner




External Examiner

**Mrs. D. KAVITHA, M.A., B.Ed., M.Phil.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **PARANORMAL INSTANCES, DEMONIC POSSESSION AND EXORCISM IN WILLIAM PETER BLATTY'S THE EXORCIST**, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Ms. P.L. SONIA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department




Signature of the

Guide /Supervisor



Internal Examiner



External Examiner



**Mrs. A. REVATHI, M.A., M.Phil., B.Ed.,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for Women (Arts & Science),**  
**Namakkal.**

### **CERTIFICATE**

This is to certify that the project entitled **THEME OF QUEST FOR IDENTITY**  
**IN R.K. NARAYAN'S *THE VENDOR OF SWEETS***, submitted to Periyar University  
in partial fulfillment of the requirements for the degree of Master of Arts in English, in  
Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work  
carried out by **Ms. M. SOUNDARYA** under my supervision and no part of the project  
has been submitted to the award of any degree, diploma, associate ship, fellowship or any  
other similar title to any candidate of any university.



Signature of the

Head of the Department

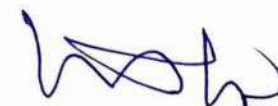


Signature of the

Guide /Supervisor



Internal Examiner




External Examiner

**Ms. S. MALARKODI M.A., B.Ed., M.Phil, SET,**  
**Assistant Professor,**  
**Department of English,**  
**Trinity College for women (Arts & Science),**  
**Namakkal.**


### **CERTIFICATE**

This is to certify that the project entitled **PSYCHOLOGICAL ASPECTS AND HORRORS IN STEPHEN KING'S *THE SHINING***, submitted to Periyar University in partial fulfillment of requirements for the degree of Master of Arts in English, in Trinity College for Women (Arts and Science), Namakkal, is a bonafide research work carried out by **Mrs. S.SUSHMITHA** under my supervision and no part of the project has been submitted to the award of any degree, diploma, associate ship, fellowship or any other similar title to any candidate of any university.




Signature of the

Head of the Department




Signature of the

Guide /Supervisor



Internal Examiner



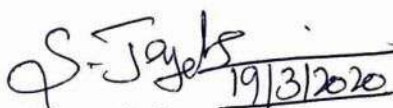
External Examiner


## CERTIFICATE

This is to certify that the project entitled “ **Invertivity of The Difference of Idempotents and Their Applications**” submitted in partial fulfillment of the of the degree Master Of Science In **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. ARUNA**. Under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020


Place: NAMAKKAL

  
Signature of the Guide

  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – Voice Examination held on 17.09.2020

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**



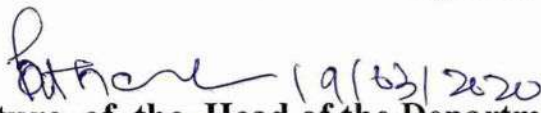
## CERTIFICATE

This is to certify that the project entitled "**T-FUZZY IDEALS IN RINGS**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. K.BABY** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.  
**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled "**Phases of Moon**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the **PERIYAR UNIVERSITY**, Salem is a record of bonafide research work carried out by **Ms. M.V BHAVADHARANE** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal.

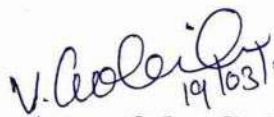


19/03/2020

**HEAD**

**Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.**

**Signature of the Head of the Department**

  
19/03/2020  
**Signature of the Guide**

Viva – voce Examination held on 17.09.2020.



**INTERNAL EXAMINER**



**EXTERNAL EXAMINER**

## CERTIFICATE

This is to certify that the project entitled "**Additive Maps Of Ring With Identity**" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. A.DEEPIKA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/03/2020

Place: NAMAKKAL

B. Jeyaraj  
19/3/2020  
Signature of the Guide

B. Jeyaraj  
19/03/2020  
Signature of the Head of the Department.

HEAD  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020.

S. Sanyal  
INTERNAL EXAMINER

R. M. Sanyal  
EXTERNAL EXAMINER




## CERTIFICATE

This is to certify that the project entitled "**Fuzzy UP-Ideals and Fuzzy UP-Subalgebras of UP-Algebras in term of Level Subsets**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Chioce Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Ms. S. DEEPIKA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal.

  
Signature of the Guide

 19/3/2020  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**


## CERTIFICATE

This is to certify that the project entitled "ANALYTIC CONTINUATION AND RIEMANN SURFACE" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. T.ELAKIYA**. Under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

  
Signature of the guide

  
Signature of the Head of the Department

**NBAH**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled “ fuzzy topological space” submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. H.GOPIKA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

B. Je  
19/3/2020  
Signature of the guide

  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER





## CERTIFICATE

This is to certify that the project entitled "A View on somewhat compactness and somewhat connectedness" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. M. GOPIKA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL.

  
Signature of the guide

  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020 .

  
**INTERNAL EXAMINER**

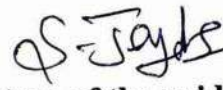
  
**EXTERNAL EXAMINER**


## CERTIFICATE

This is to certify that the project entitled "**PERFECT NUMBERS AND MERSENNE PRIMES**" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. P. KANITHA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020

Place: NAMAKKAL


  
Signature of the guide 19/3/2020

  
19/03/2020.

Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled "A Study On Fuzzy Subsets and Fuzzy Subgroups" submitted in partial fulfillment of the requirement of the degree of MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by **Ms. M. KARTHIKA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020

Place: Namakkal.

B. Le  
19/3/2020

Signature of the Guide

B. Le  
19/03/2020

Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020.

J. Jayaraj  
INTERNAL EXAMINER

R. M. S. S.  
EXTERNAL EXAMINER




## CERTIFICATE

This is to certify that the project entitled "**T-SEMISIMPLE MODULES AND T-SEMISIMPLE RINGS**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. KEERTHANA** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled "A STUDY ON COUNTABLY PRE COMPACTNESS AND PRE LINDELOF SPACE" submitted in partial fulfillment of the requirement of the award of the degree of Master of Science in MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by Mrs.N.KIRUTHIKA under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020

Place: Namakkal


  
Signature of the guide

  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva - voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled “**ON GENERALIZED CLOSED SETS IN GENERALIZED TOPOLOGICAL SPACES**” submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. LAVANYA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.3.2020

Place: NAMAKKAL

  
Signature of the guide

  
Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER





## CERTIFICATE

This is to certify that the project entitled "fuzzy topological spaces and fuzzy multifunctions" submitted in partial fulfillment of the requirement of the degree of MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by Ms .S MANORANJANI under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

  
Signature of the guide

 19/03/2020.  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER


  
EXTERNAL EXAMINER

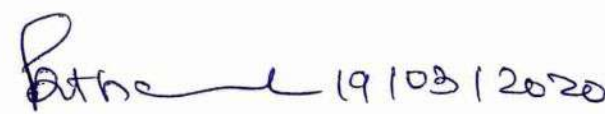
# CERTIFICATE

This is to certify that the project entitled “On Fuzzy Dot d-ideals of d- algebras” submitted in partial fulfillment of the requirement of the degree of MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by Ms. S. MATHUMITHA under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.3.2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – Voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

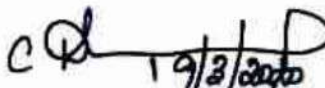
  
EXTERNAL EXAMINER

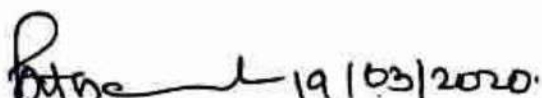
## CERTIFICATE

This is to certify that the project entitled "**Homomorphism and Cartesian Product of Fuzzy ps-algebra**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. M.MYTHREYEE** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/03/2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – Voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



## CERTIFICATE

This is to certify that the project entitled " **$g^*s$  and Strongly  $g^*s$ - closed sets in Topological spaces**" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. M. NANTHINI** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

  
Signature of the guide

  
Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020 .

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**


## CERTIFICATE

This is to certify that the project entitled "**EDGE DOMINATION IN SOME SPECIAL GRAPHS**" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. M. NAVEENA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

 19/03/2020  
Signature of the guide

 19/03/2020.  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

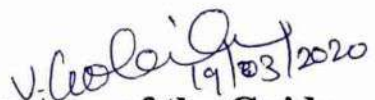
  
EXTERNAL EXAMINER


# CERTIFICATE

This is to certify that the project entitled "A Study on Rings of Polynomials" submitted in partial fulfillment of the requirement of the degree of MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by **Mrs. S. NIVETHA** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.3.2020

Place: Namakkal.

  
Signature of the Guide

 19/03/2020  
Signature of the Head of the Department.  
**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – Voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

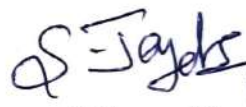



## CERTIFICATE

This is to certify that the project entitled "**QUOTIENT – 3 CORDIAL LABELING GRAPHS**" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. NIVETHA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.3.2020

Place: NAMAKKAL

  
Signature of the guide 19/3/2020

 19/03/2020  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER


  
EXTERNAL EXAMINER


## CERTIFICATE

This is to certify that the project entitled "A Study on fuzzy hypervector space" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. NIVETHA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

  
Signature of the guide

 19/03/2020  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

  
**INTERNAL EXAMINER**


  
**EXTERNAL EXAMINER**

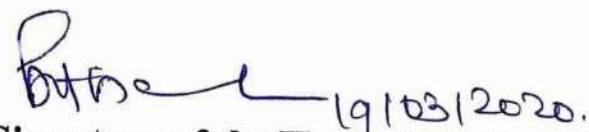
# CERTIFICATE

This is to certify that the project entitled "**Theory of Modules**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. PRITHIKA** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19-03-2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.

HEAD  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – Voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



# CERTIFICATE

This is to certify that the project entitled "**A STUDY ON MINIMAL AND MAXIMAL BETA OPEN SETS**" submitted in partial fulfillment of the requirement of the award of the Degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. K. PRIYA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19-03-2020

Place: NAMAKKAL

*V. Gola*  
19/03/2020  
**Signature of the guide**

*Signature* 19/03/2020  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

*P. N. D.*  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**

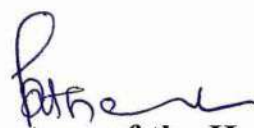
## CERTIFICATE

This is to certify that the project entitled "**On Convergence Theory In Fuzzy Topological Spaces And Its Application**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. S. PRIYADHARSHINI** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal

  
Signature of the Guide

 19/03/2020  
Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

  
**INTERNAL EXAMINER**

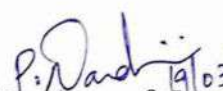
  
**EXTERNAL EXAMINER**


## CERTIFICATE

This is to certify that the project entitled "**COMPACTNESS IN FUZZY TOPOLOGICAL SPACES**" submitted in partial fulfillment of the requirement of the award of Degree of Master of Science in **MATHEMATICS(Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. M. PRIYANKA** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19-03-2020

Place: NAMAKKAL

  
Signature of the guide

  
Signature of the Head of the Department

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER





## CERTIFICATE

This is to certify that the project entitled "**ON INTUITIONISTIC DIMENSION FUNCTION**" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. P. RAMYA**. Under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: NAMAKKAL

  
Signature of the guide

 19/03/2020.  
Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled “FUZZY RINGS AND ANTI FUZZY RINGS WITH OPERATORS ” submitted in partial fulfillment of the requirement of the award of the Degree Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. K. RANJANI** Under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19-03-2020

Place: NAMAKKAL

B. 20  
19/3/2020  
Signature of the Guide

 19/03/2020

Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

## CERTIFICATE

This is to certify that the project entitled “ON INTUITIONISTIC  $\mathcal{B}$  STRUCTURE NORMAL SPACE” submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. B. RANJITHA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/03/2020

Place: NAMAKKAL

  
Signature of the guide

Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

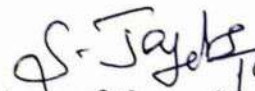



## CERTIFICATE

This is to certify that the project entitled "A STUDY ON SPANNING TREES OF GRAPH THEORY" submitted in partial fulfillment of the requirement of the award of the Degree of Master of Science in MATHEMATICS (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by Miss. M. RUBALADEVI under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19-03-2020

Place: Namakkal

  
Signature of the guide 19/3/2020

  
Signature of the Head of the Department.

HEAD  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020 .

  
INTERNAL EXAMINER


  
EXTERNAL EXAMINER


## CERTIFICATE

This is to certify that the project entitled "**DOMINATION IN FUZZY PLANAR GRAPH**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. V. RUBASRI** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.

**HEAD**  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER


  
EXTERNAL EXAMINER


## CERTIFICATE

This is to certify that the project entitled "**A Study on Fuzzy B - Algebra**" submitted in partial fulfillment of the requirement of the award of the degree of **MASTER OF SCIENCE IN MATHEMATICS** (Under Choice Based Credit System) to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. P.SARANYA** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal.

  
Signature of the Guide

 19/2020 (March).  
Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

**Viva-Voice Examination held on.....17.09.2020**

  
**INTERNAL EXAMINAR**

  
**EXTERNAL EXAMINAR**



## CERTIFICATE

This is to certify that the project entitled “Colorings Of Graphs” submitted in partial fulfillment of the requirement of the degree of MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System) to the Periyar University , Salem is a record of bonafide research work carried out by Miss. S. SARANYA under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/03/2020

Place: Namakkal

B. L.  
19/3/2020  
Signature of the Guide

 19/03/2020.

Signature of the Head of the Department

HEAD  
Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.

Viva – voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

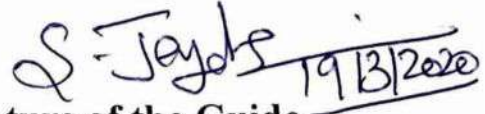
  
EXTERNAL EXAMINER

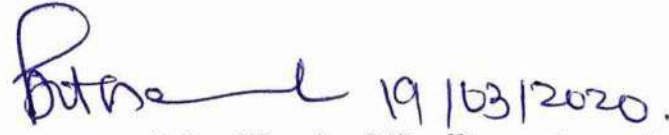
## CERTIFICATE

This is to certify that the project entitled "**Compact Operators**" submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Ms. A. THENMOZHI** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/3/2020


Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva – voce Examination held on 17.09.2020.

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**


## CERTIFICATE

This is to certify that the project entitled "**FINITE METRIC SPACES AND THEIR EMBEDDING INTO LEBESGUE SPACES** " submitted in partial fulfillment of the requirement of the degree of **MASTER OF SCIENCE IN MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Miss. V. THILAGAM** under my supervision and guidance and that no part of the dissertation has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal.

  
Signature of the Guide

  
Signature of the Head of the Department.  
**HEAD**

**Department of Mathematics,  
Trinity College for Women,  
Namakkal - 637 001.**

Viva – voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER




## CERTIFICATE

This is to certify that the project entitled "**Spectral Theory**" submitted in partial fulfillment of the requirement of the award of the Degree Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Ms.A.VINISHA** under my supervision and guidance and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19/03/2020

Place: NAMAKKAL

  
Signature of the Guide

  
Signature of the Head of the Department

**HEAD**  
**Department of Mathematics,**  
**Trinity College for Women,**  
**Namakkal - 637 001.**

Viva -Voice Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER


## CERTIFICATE

This is to certify that the project entitled "**Box Products in Fuzzy Topological Spaces and Related Topics**" submitted in partial fulfillment of the requirement of the award of the Degree Master of Science in **MATHEMATICS (Under Choice Based Credit System)** to the Periyar University, Salem is a record of bonafide research work carried out by **Ms. R.K.VISHALATCHI** under my supervision and guidance of and that no part of the project has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Date: 19.03.2020

Place: Namakkal

  
Signature of the Guide

  
19/03/2020  
Signature of the Head of the Department

**HEAD**  
Department of Mathematics,  
Trinity College, Salem,  
Namakkal - 637 002

Viva – voce Examination held on 17.09.2020.

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

**Mrs. P. SUMATHI, M.Sc., M.Phil., B.Ed.,**

Assistant Professor of Physics,

Trinity College for Women,

Namakkal.

---


## CERTIFICATE

This is to certify that the project report “ **SYNTHESIS AND CHARACTERIZATION OF  $ZNO_2$  NANOPOWDER BY MICROWAVE IRRADIATION METHOD**” Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **DEEPIKA.P Reg.No. 18PPH1159** under my supervision and guidance under semester system.


Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.


  
**Head of the Department**

**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**  
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

### Examiners:

1.   
**R. SAKUNTHALA DEVI, M.Sc.M.Phil.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

2.   
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.



**Mrs. P. SUMATHI, M.Sc., M.Phil., B.Ed.,**

Assistant Professor of Physics,

Trinity College for Women,

Namakkal.

---


## CERTIFICATE

This is to certify that the project report "**CHEMICAL VAPOUR SYNTHESIS AND CHARACTERIZATION OF TIN DOPED BISMUTH OXIDE NANOPARTICLES BY CO-OPERATION METHOD**" Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **DIVYA.B Reg.No. 18PPH1160** under my supervision and guidance under semester system.

Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

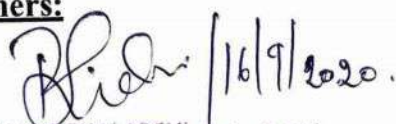
  
**Head of the Department**


**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**

**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

### Examiners:

1.   
**R. SAKUNTHALADEVI, M.Sc., M.Phil.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

2.   
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

**Mrs. P. SUMATHI, M.Sc., M.Phil., B.Ed.,**

Assistant Professor of Physics,

Trinity College for Women,

Namakkal.

---

## CERTIFICATE

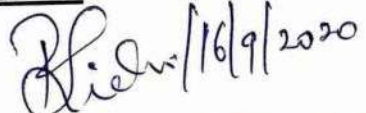
This is to certify that the project report “ **SYNTHESIS AND CHARACTERIZATION OF ZINC DOPED BISMUTH OXIDE BY SOL – GEL METHOD**” Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **HEMALATHA.T Reg.No. 18PPH1161** under my supervision and guidance under semester system.


Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
**Head of the Department**

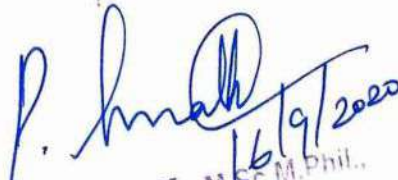
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

**Examiners:**

1.   
**R. SAKUNTHALADEVI, M.Sc., M.Phil.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**

**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women

2.   
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

Ms. R.BAIRAVI, M.Sc., M.Phil., B.Ed.,

Assistant Professor of Physics,


Trinity College for Women,

Namakkal.


## CERTIFICATE


This is to certify that the project report " **STRUCTURAL PHOTOLUMINESCENCE AND CHARACTERISTICS OF BISMUTH OXIDE NANO PARTICLES** " Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **ILAYABHARATHI.P** **Reg.No. 18PPH1162** under my supervision and guidance under semester system.


Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
**Head of the Department**  
**P. SUMATHI, M.Sc., M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

**Examiners:**

1.   
**P. SUMATHI, M.Sc., M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**  
**R. BAIRAVI, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

2.   
**R. BAIRAVI, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.



Ms. R.BAIRAVI, M.Sc., M.Phil., B.Ed.,

Assistant Professor of Physics,

Trinity College for Women,

Namakkal.


## CERTIFICATE

This is to certify that the project report " **SYNTHESIS AND CHARACTERISATION OF TIN OXIDE NANOPARTICLES BY SOLGEL METHOD**" Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **KALAIMANI.P Reg.No. 18PPH1163** under my supervision and guidance under semester system.

Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
Head of the Department

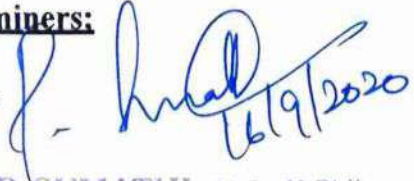
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
Signature of the Guide


R. BAIRAVI, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

**Examiners:**

1.

  
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

2.

  
R. BAIRAVI, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

**Mrs. R. BAIRAVI, M.Sc., M.Phil., B.Ed.,**

Assistant Professor of Physics,

Trinity College for Women,

Namakkal.

---


## CERTIFICATE

This is to certify that the project report "**PREPARATION AND CHARACTERISATION OF COPPER OXIDE NANO PARTICLES**" Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **KAVIPRIYA.V Reg.No. 18PPH1164** under my supervision and guidance under semester system.

Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
**Head of the Department**


**P. SUMATHI, M.Sc., M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**


**R. BAIRAVI, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

**Examiners:**

1.

  
**P. SUMATHI, M.Sc., M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

2.

  
**R. BAIRAVI, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

**Mrs. B.KAVITHA, M.Sc., M.Phil., B.Ed.,**

Assistant Professor of Physics,

Trinity College for Women,

Namakkal.

---

## CERTIFICATE

This is to certify that the project report **"SYNTHESIS AND CHARACTERIZATION OF BISMUTH DOPPED TIN OXIDE NANOPARTICLES BY MICROWAVE IRRADIATION METHOD"** Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **KEERTHIKA.V Reg.No. 18PPH1165** under my supervision and guidance under semester system.

Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
**Head of the Department**


**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**

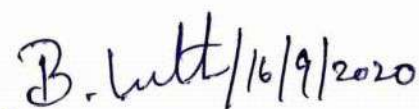
**B. KAVITHA, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

**Examiners:**

1.

  
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

2.

  
**B. KAVITHA, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.



**Mrs. B.KAVITHA, M.Sc., M.Phil., B.Ed.,**

Assistant Professor of Physics,


Trinity College for Women,

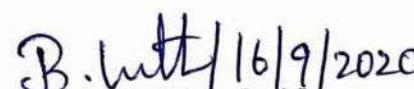
Namakkal.

## CERTIFICATE


This is to certify that the project report **“STRUCTURAL PHOTOLUMINESCENCE AND MAGNETIC PROPERTIES OF ALUMINIUM DOPPED CADMIUM OXIDE NANO PARTICLES”** Submitted to Trinity college for women in partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is a record of independent work carried out by **MONISHA.K Reg.No. 18PPH1167** under my supervision and guidance under semester system.


Also, I certify that this project work has not previously formed the basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
**Head of the Department**  
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Guide**  
**B. KAVITHA, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

### Examiners:

1.   
**B. KAVITHA, M.Sc., M.Phil., B.Ed.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.


2.   
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.

## CERTIFICATE

This is to certify that the Project Report entitled "STRUCTURAL AND OPTICAL PROPERTIES OF Fe DOPED TiO<sub>2</sub> BASED NANOPARTICLES" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by V.MOUNIKA & 18PPH1168 under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal


Date: 16.09.2020



Signature of the Head of the Department


P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam: 16.09.2020

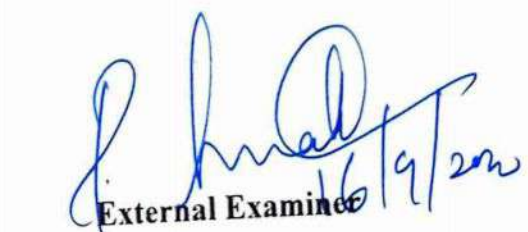


Internal Examiner

K. MEHALA, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.



Signature of the supervisor  
K. MEHALA, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.



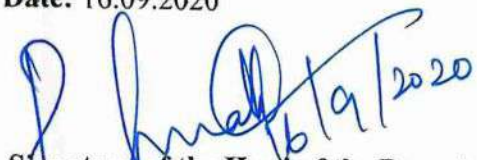
External Examiner  
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

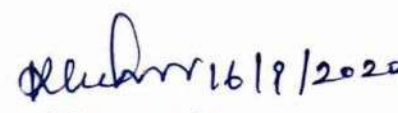
## CERTIFICATE

This is to certify that the Project Report entitled "MICROWAVE ASSISTED SOL-GEL SYNTHESIS ON STRUCTURAL AND OPTICAL PROPERTIES OF  $\text{TiO}_2$  NANOPARTICLES" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by **R.MOUNISHA & 18PPH1169** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.


Place: Namakkal


Date: 16.09.2020

  
Signature of the Head of the Department  
**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
Signature of the supervisor  
**K. MEHALA**, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam:

  
Internal Examiner  
**K. MEHALA**, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

  
External Examiner  
**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.



## CERTIFICATE

This is to certify that the Project Report entitled "SYNTHESIZED AND CHARACTERIZED OF Co DOPED TiO<sub>2</sub> NANOPARTICLES USING SOL-GEL TECHNIQUE" submitted to the Periyar University, Salem in partial fulfillment of therequirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by **K. NANDHINI & 18PPH1170** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 16.09.2020



Signature of the Head of the Department

**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.



Signature of the supervisor

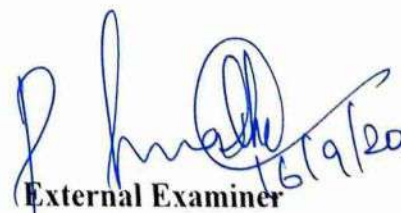
**K. MEHALA**, M.Sc., M.Phil., B.Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam: 16.09.2020



Internal Examiner

**K. MEHALA**, M.Sc., M.Phil., B. Ed.,  
Assistant Professor of Physics  
Trinity College for Women  
Namakkal.



External Examiner

**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

**Dr.B. Lakshmi, M.Sc., M.Phil.,PGDCA.,Ph.D**

Assistant Professor,

Department of Physics,

Trinity College for Women,

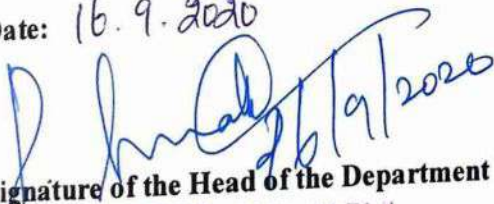
Namakkal.

### CERTIFICATE

This is to certify that the Project Report entitled "**THE COMPARITIVE STUDIES OF FTIR & UV ANALYSIS OF MIXED CRYSTALS BY SLOW EVAPORATION METHOD**" submitted to the Periyar University, salem in partial fulfillment of the requirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by **P. OOVIIYA & 18PPH1171** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 16.9.2020

  
Signature of the Head of the Department  
**P. SUMATHI, M.Sc.M.Phil.,**

Head Department of Physics  
Trinity College for Women

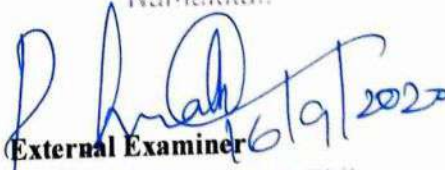
Date of Viva-Voce Exam: 16/09/20

  
Internal Examiner

**B. LAKSHMI, M.Sc.,M.Phil.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
Signature of the Supervisor

**B. LAKSHMI, M.Sc.,M.Phil.,**  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
(External Examiner)  
**P. SUMATHI, M.Sc.M.Phil.,**  
Head Department of Physics  
Trinity College for Women  
Namakkal.



B. Lakshmi., M.Sc., M.Phil., PGDCA., Ph.D.,

Assistant Professor,

Department of Physics,

Trinity College for Women,

Namakkal

### CERTIFICATE

This is to certify that the Project Report entitled "**GROWTH CHARACTERIZATION AND VARIOUS STUDIES OF GLYCINE WITH MIXED CRYSTALS BY SLOW EVAPORATION METHOD**" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by **S.RAMYA & 18PPH1172** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

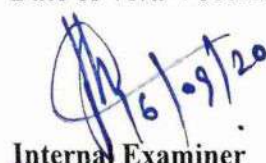
Place: Namakkal

Date: 16.9.2020

  
Signature of the Head of the Department

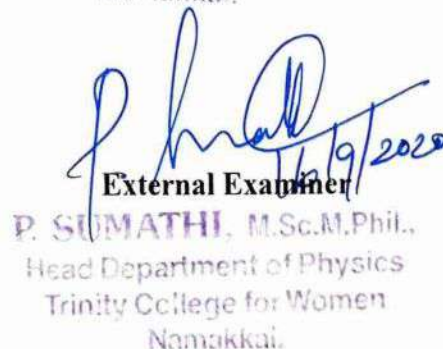
Head Department of Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam: 16/09/20

  
Internal Examiner

B. LAKSHMI, M.Sc., M.Phil.  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
Signature of the Supervisor  
B. LAKSHMI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
External Examiner  
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.



**Dr.B. Lakshmi., M.Sc., M.Phil.,PGDCA.,Ph.D.,**


Assistant Professor,  
Department of Physics,  
Trinity College for Women,  
Namakkal.

## CERTIFICATE

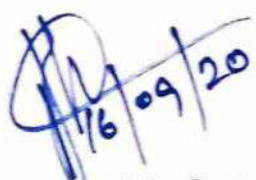
This is to certify that the Project Report entitled **GROWTH CHARACTERIZATION AND VARIOUS STUDIES OF GLYCINE, POTASSIUM DICHROMATE DOPPED COPPER NITRATE CRYSTAL BY SLOW EVAPORATION METHOD** submitted to the Periyar University, salem in partial fulfillment of the requirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by **K. SARANYA 18PPH1173** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 16.9.2020

  
**Signature of the Head of the Department**

Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**Signature of the Supervisor**

B. LAKSHMI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

**Date of Viva-Voce Exam:** 16/09/20

  
**Internal Examiner**

B. LAKSHMI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
**External Examiner**

P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

## CERTIFICATE

This is to certify that the Project Report entitled "SYNTHESIS, GROWTH AND CHARACTERISATION OF POTASSIUM PER MAGNET DOPED UREA SINGLE CRYSTALS" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the Master of Science degree in Department of Physics. The record of bonafied project work carried out by A. SHALINI, REG.NO: 18PPH1174 under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 15.09.2020

  
Signature of the Head of the Department

Supervisor

P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.


  
Signature of the

P. SUMATHI, M.Sc., M.Phil.  
Head Department of Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam: 16.09.2020

  
Internal Examiner

R. SAKUNTHALADEVI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
External


R. SAKUNTHALADEVI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

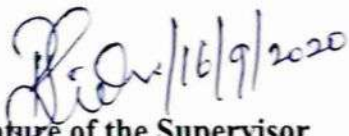
## CERTIFICATE

This is to certify that the project report entitled "SYNTHESIS, GROWTH AND CHARACTERIZATION OF DIMETHYLANILINIUM PICRATE SINGLE CRYSTALS" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the Master of Science degree in Department of Physics. The record of bonafide project work carried out by T. SOWMIYA, REG.NO: 18PPH1175 under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

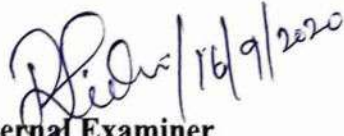
Place: Namakkal


Date: 15.09.2020

  
Signature of the Head of the Department  
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
Signature of the Supervisor  
R. SAKUNTHALADEVI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam: 16.09.2020

  
Internal Examiner  
R. SAKUNTHALADEVI, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
External Examiner  
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

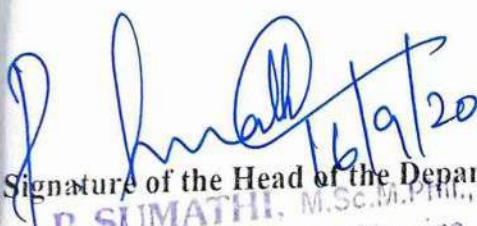


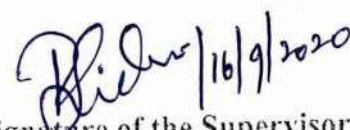
## CERTIFICATE

This is to certify that the project report entitled **"SYNTHESIS, GROWTH AND CHARACTERIZATION OF LSERINE PICRIC ACID"** submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the Master of Science degree in Department of Physics. The record of bonafide project work carried out by **M. THARANI, REG.NO: 18PPH1176** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.


Place: Namakkal

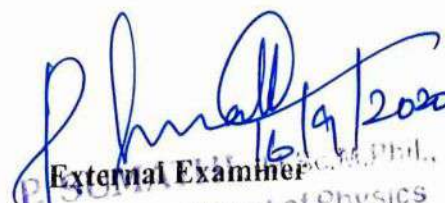
Date: 15.09.2020

  
Signature of the Head of the Department  
**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
Signature of the Supervisor  
**R. SAKUNTHALADEVI**, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

Date of Viva-Voce Exam: 16.09.2020

  
Internal Examiner  
**R. SAKUNTHALADEVI**, M.Sc., M.Phil.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
External Examiner  
**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

# TRINITY COLLEGE FOR WOMEN

## DEPARTMENT OF PHYSICS

**Dr. R. POONGUZHALI**, M.Sc., Ph.D.,  
Assistant Professor,  
Department of Physics,  
Trinity College for women,  
Trinity Nagar - 637 002,  
Tamil Nadu, India.

### CERTIFICATE

This is to certify that the dissertation entitled "*EFFECTS OF Fe IONS DOPING STRUCTURAL, OPTICAL AND MORPHOLOGICAL PROPERTIES OF CuO NANOCRYSTALS*" submitted by **Miss. S. VARSHINI** is a record of research work done by her during the period of study under my guidance and that the dissertation has not been previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title to the candidate.

This is also to certify that the dissertation represents the independent work of the candidate.

  
**Mrs. P. Sumathi**

Professor & Head,  
Department of Physics,  
Trinity College for Women.

  
**(Dr. R. POONGUZHALI)**

**Research Supervisor**  
P. SUMATHI, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

Place : Namakkal

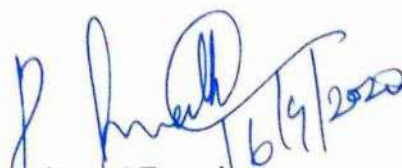
Date : 16.09.2020

Date of Viva-Voce Exam: 16.09.2020



**Internal Examiner**

**K. KAVITHA**, M.Sc., M.Phil., B.Ed.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
**External Examiner**

**P. SUMATHI**, M.Sc., M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.



**TRINITY COLLEGE FOR WOMEN**  
**DEPARTMENT OF PHYSICS**

**Dr.R. POONGUZHALI**, M.Sc., B.Ed., Ph.D.,  
Assistant Professor,  
Department of Physics,  
Trinity College for women,  
Trinity Nagar – 637 002,  
Tamil Nadu, India.


---

**CERTIFICATE**


This is to certify that the dissertation entitled "*A SYNTHESIS TECHNIQUE OF Ce DOPING MgO NANOCRYSTALS FOR ELECTROCHEMICAL CAPACITOR APPLICATION*" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Department of Physics is a record of bonafied project work carried out by **S.YOGAPRIYA (Reg.No:18PPH1178)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines. This is also to certify that the dissertation represents the independent work of the candidate.


Place: Namakkal


Date: 16.09.2020

  
**Mrs. P. Sumathi**  
Professor & Head,  
Department of Physics,  
Trinity College for Women.

**Date of Viva-Voce Exam: 16.09.2020**

  
**Internal Examiner**  
B. KAVITHA, M.Sc., M.Phil., B.Ed.,  
Assistant Professor in Physics  
Trinity College for Women  
Namakkal.

  
**(Dr.R. POONGUZHALI)**  
**Research Supervisor**  
P. SUMATHI, M.Sc.M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.

  
**External Examiner**  
P. SUMATHI, M.Sc.M.Phil.,  
Head Department of Physics  
Trinity College for Women  
Namakkal.




**TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE)**

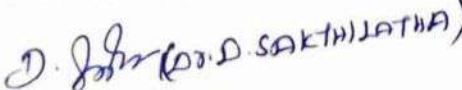
**MOHANUR ROAD, NAMAKKAL - 637001**


**CERTIFICATE**


This is to certify that this project work entitled **“WATER QUALITY PARAMETERS OF KALAIMAGAL DYEING WASTE WATER IN KARUR”** is a bonafied record of the work done by **M. DHIVYA** during the academic year 2019-2020 in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN CHEMISTRY**.

Submitted for the Periyar University project demonstrate and Viva-Voce examination held on 17.9.20 at chemistry Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL**.

  
**Signature of the Guide**  
**(Dr. D. SAKTHI LATHA)**  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

**Internal Examiners**  
  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

  
**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

  
**Examiners**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

## CERTIFICATE

This is to certify that the project work dissertation entitled "**SYNTHESIS OF NANO ZnO AND ITS APPLICATION TO PHOTOCATALYSIS FOR DYE DEGRADATION**" submitted in partial fulfillment of the degree of **MASTER OF SCIENCE IN CHEMISTRY** of the **TRINITY COLLEGE FOR WOMEN, NAMAKKAL**, is bonafied record of the project work carried out by **A.FARHANA, Reg No: 18PCH1198** under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.



**Head of the Department**

**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:



**Signature of the Guide**

**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

**EXAMINERS:**

1)


 [V-INDIRAKUMARI]

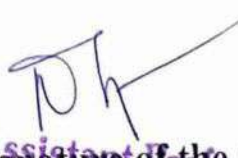
2)



## CERTIFICATE

This is to certify that the project work dissertation entitled "**NANO ZINCTITANATE PREPARED BY SOL-GEL METHOD FOR THE DEGRADATION STUDIES OF BASIC RED DYE**" submitted in partial fulfillment of the degree of **MASTER OF SCIENCE IN CHEMISTRY** of the **TRINITY COLLEGE FOR WOMEN, NAMAKKAL**, is bonafied record of the project work carried out by **P.GEETHA**, Reg No: 18PCH1199 under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.

  
**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

  
**Assistant Professor**  
**Signature of the Guide**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:

**EXAMINERS:**

1)



2)



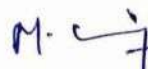


## CERTIFICATE

This is to certify that the project work dissertation entitled  
"PHOTOCATALYTIC DECOMPOSITION STUDIES OF DIRECT  
BLUE 86 DYE USING A NOVAL CATALYST" submitted in partial  
fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of  
the TRINITY COLLEGE FOR WOMEN, NAMAKKAL, is bonafied record of  
the project work carried out by R.KAVIYA, Reg No: 18PCH1201 under my  
guidance and supervision and I certify that this work is original and has not been  
submitted elsewhere for any degree.

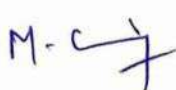


**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.



**Signature of the Guide**  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:

**EXAMINERS:** 1)  [M. CHITRA]

2) 

## CERTIFICATE

This is to certify that the project work dissertation entitled "**SYNTHESIS AND ADSORPTION STUDIES OF NANO CARBON FOR THE REMOVAL OF A TETILE DYE**" submitted in partial fulfillment of the degree of **MASTER OF SCIENCE IN CHEMISTRY** of the **TRINITY COLLEGE FOR WOMEN, NAMAKKAL**, is bonafied record of the project work carried out by **S.KAVIYA, Reg No: 18PCH1202** under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.



**Head of the Department**  
Head & Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.




**Signature of the Guide**  
Head & Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:

**EXAMINERS:**

1)



Head & Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

2)

## CERTIFICATE

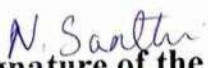
This is to certify that the project work dissertation entitled "NOVEL NON-CONVENTIONAL ADSORBENT FOR THE DYE REMOVAL" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the TRINITY COLLEGE FOR WOMEN, NAMAKKAL, is bona fied record of the project work carried out by S.MAHALAKSHMI, Reg No: 18PCH1203 under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.

  
Head of the Department

Head & Assistant Professor

Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:

  
Signature of the Guide  
Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

EXAMINERS:

1)



2) N. Santhi



## CERTIFICATE

This is to certify that the project work dissertation entitled "**FACILE SYNTHESIS AND APPLICATIONS OF MAGNESIA NANO PARTICLES FOR PHOTOCATALYSIS**" submitted in partial fulfillment of the degree of **MASTER OF SCIENCE IN CHEMISTRY** of the **TRINITY COLLEGE FOR WOMEN, NAMAKKAL**, is bonafied record of the project work carried out by **B.NANDHINI**, Reg No: **18PCH1204** under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.



**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.



**Signature of the Guide**  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:

**EXAMINERS:**

1) 


2) 


**TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL - 637001**


**CERTIFICATE**


This is to certify that this project work entitled **“STUDY OF PHYSICO-CHEMICAL CHARACTERISTICS OF SEWAGE WATER IN VETTAMBADI LAKE, NAMAKKAL”** is a bonafied record of the work done by **V. NAVANEETHA** during the academic year 2019-2020 in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE IN CHEMISTRY**.

Submitted for the Periyar University project demonstrate and Viva-Voce examination held on 17.9.20 at chemistry Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL**.

  
**Signature of the Guide**  
(**DR. D. SAKTHIVEL**)  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

**Internal Examiners**  
 (**DR. D. SAKTHIVEL**)  
**Assistant Professor**  
Dept. of Chemistry,  
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Namakkal.

  
**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

  
**Examiners**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

## CERTIFICATE

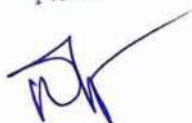
This is to certify that the project, entitled "SYNTHESIS AND CHARACTERIZATION OF  $ZrO_2$  NANOPARTICLES BY MICROWAVE IRRADIATION METHOD" submitted to Periyar University, Salem, in partial fulfillment of the requirement for the award of the Degree of **MASTER OF SCIENCE in CHEMISTRY** is a record of research work done by **M. NIVETHA** during the period 2018 – 2020 in the Department of Chemistry at Trinity College for Women (Arts and Science), Namakkal, under my supervision and guidance and the dissertation has not formed the basis for the award of any degree / fellowship or other similar title to any candidate of any University.

Date: 17.9.2020

Place: Namakkal



**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women,  
Namakkal.



**Internal Examiner**



**Signature of the Guide**  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women,  
Namakkal.



**External Examiner**

## DECLARATION



## CERTIFICATE

This is to certify that the project work dissertation entitled "GREEN SYNTHESIS OF MgO NANO PARTICLES AND ANALYSING ITS APPLICATION" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the TRINITY COLLEGE FOR WOMEN, NAMAKKAL, is bonafied record of the project work carried out by V.POOVARASI, Reg No: 18PCH1207 under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.

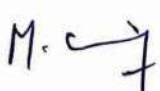


**Head of the Department**  
**Head & Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.



**Signature of the Guide**  
**Assistant Professor**  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:

EXAMINERS: 1)  [M. CHITRA]

2) 

## CERTIFICATE

This is to certify that the project work dissertation entitled "PHOTOCATALYTIC DEGRADATION STUDIES OF REACTIVE RED 120 DYE USING NOVEL CATALYST" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the TRINITY COLLEGE FOR WOMEN, NAMAKKAL, is bonafied record of the project work carried out by P.SHARMILA, Reg No: 18PCH1208 under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.



Head of the Department


Head & Assistant Professor

Dept. of Chemistry,

Trinity College for Women

Namakkal

Submitted for the Viva Voce examination held on:

  
Signature of the Guide  
Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

EXAMINERS:

1) N. Sarathi

2)



## CERTIFICATE


This is to certify that the project work dissertation entitled "EVALUATION OF ADSORPTION KINETICS OF CONGO RED DYE USING NANO SORBENT" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the TRINITY COLLEGE FOR WOMEN, NAMAKKAL, is bonafied record of the project work carried out by S.R.YAZHINI PIRABHA, Reg No: 18PCH1210 under my guidance and supervision and I certify that this work is original and has not been submitted elsewhere for any degree.



**Head of the Department**

Head & Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women  
Namakkal.

Submitted for the Viva Voce examination held on:



**Signature of the Guide**  
Assistant Professor  
Dept. of Chemistry,  
Trinity College for Women,  
Namakkal.

EXAMINERS: 1)  [V.INDIRAKUMARI]

2)





**TRINITY COLLEGE FOR WOMEN**


**(ARTS AND SCIENCE)**

**MOHANUR ROAD, NAMAKKAL – 637002**

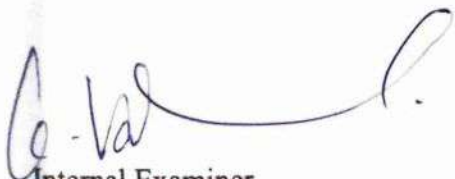



This is to certify that this project work entitled “**A PARTICLE SWARM OPTIMIZED LEARNING MODEL OF FAULT CLASSIFICATION IN WEB APPS**” is a bonafide record of the work done by **R.DIVYA**, Reg.No: 17PCS1135 during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University project Demonstrate and Viva-Voce Examination held on ...16.9.2020.. at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE) NAMAKKAL.**

  
Signature of the Guide

  
Head of the Department

  
Internal Examiner

  
External Examiner

**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL - 637002**



This is to certify that this project work entitled "**VIDEO COMPRESSION WITH DATA HIDING AND DATA EXTRACTION**" is a bonafide record of the work done by **S.GIRIJA, Reg.No:18PCS1136** during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on 16.9.2020 at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

Signature of the Guide

Head of the Department

Internal Examiner

External Examiner


**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL – 637 002**

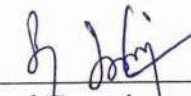



This is to certify that this project work entitled “**VEHICLE ALERT SYSTEM**” is a bonafide record of the work done by **N. NANDHINI, Reg.No:18PCS1137** during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on..16.9.2020..at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

  
\_\_\_\_\_  
Signature of the Guide

  
\_\_\_\_\_  
Head of the Department

  
\_\_\_\_\_  
Internal Examiner

  
\_\_\_\_\_  
External Examiner



**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL-637002**



This is to certify that this project work entitled “**IOT BASED AIR POLLUTION MONITORING SYSTEM**” is a bonafide record of work done by **M.NATHIYA, Reg.No:18PCS1138** during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for Periyar University Project Demonstrate and Viva-Voce Examination held on 16/9/20.....Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

**Signature of the Guide**

**Head of the Department**

**Internal Examiner**

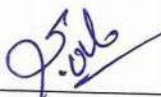
**External Examiner**

**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL – 637 002**

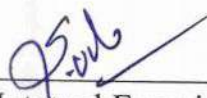



This is to certify that this project work entitled “**NORMALIZATION OF DUPLICATE RECORDS FROM MULTIPLE SOURCES**” is a bonafide record of the work done by **S.PRABHA**, Reg.No:18PCS1140 during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on 16.09.2020 at Computer Science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL**.

  
\_\_\_\_\_  
Signature of the Guide

  
\_\_\_\_\_  
Head of the Department

  
\_\_\_\_\_  
Internal Examiner


  
\_\_\_\_\_  
External Examiner

**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL – 637 002**





This is to certify that this project work entitled “SECURING DATA IN INTERNET OF THINGS (IOT) USING CRYPTOGRAPHY AND STEGANOGRAPHY TECHNIQUES” is a bonafide record of the work done by **R.PRAGATHI**, Reg.No:18PCS1141 during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on.....at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

  
Signature of the Guide

  
Head of the Department

  
Internal Examiner

  
External Examiner





**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL – 637 002**




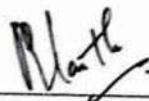
This is to certify that this project work entitled **"EFFICIENT AND SECURE CONTENT PROCESSING AND DISTRIBUTION BY COOPERATIVE INTERMEDIARIES"** is a bonafide record of the work done by **R.SANGAVI**, Reg.No:18PCS1142 during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on 16.07.2022 at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

  
Signature of the Guide

  
Head of the Department

  
Internal Examiner

  
External Examiner

**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL – 637 002**



This is to certify that this project work entitled **“NEW FRAMEWORK OF REVERSIBLE DATA HIDING IN ENCRYPTED JPEG BIT STREAMS”** is a bonafide record of the work done by **S.SANGEETHA, Reg.No:18PCS1143** during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on 16.09.2020 at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

Signature of the Guide

Head of the Department

Internal Examiner


External Examiner

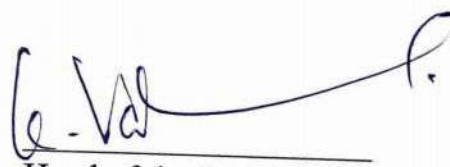
**TRINITY COLLEGE FOR WOMEN**  
**(ARTS AND SCIENCE)**  
**MOHANUR ROAD, NAMAKKAL – 637 002**





This is to certify that this project work entitled “**SECURE KEY AGREEMENT AND KEY PROTECTION FOR MOBILE DEVICE USER AUTHENTICATION**” is a bonafide record of the work done by **U.SURUTHI, Reg.No:18PCS1144** during the academic year 2019-2020 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE (COMPUTER SCIENCE)**.

Submitted for the Periyar University Project Demonstrate and Viva-Voce Examination held on...16.09.2020...at Computer science Department, **TRINITY COLLEGE FOR WOMEN (ARTS AND SCIENCE), NAMAKKAL.**

  
Signature of the Guide

  
Head of the Department

  
Internal Examiner

  
External Examiner



**Mrs.D.VALARMATHI, M.Com., M.Phil., M.B.A.,B.Ed.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled "**A STUDY ON JOB SATISFACTION OF SELECT PRIVATE SECTOR BANK EMPLOYEES IN NAMAKKAL TOWN**" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **M.ANANTHI (Reg. No. 18PCM1199)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.


**Place:** Namakkal.

**Date:** 17-09-2020


**Dr.G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET**  
**Signature of the Head of the Department**

Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

**Date of Viva-Voce Exam:** 17-09-2020

  
**Signature of the Supervisor**

  
**Internal Examiner**

  
**External Examiner**

**Dr.L.TAMILSELVI, M.Com.,M.Phil.,M.B.A.,Ph.D.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the Project Report entitled **"A STUDY ON CONSUMERS' SATISFACTION TOWARDS HATSUN MILK PRODUCTS IN NAMAKKAL TOWN"** submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **T.ANUSUYA & 18PCM1200** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

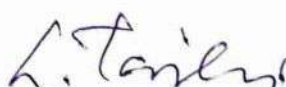
**Place:** Namakkal

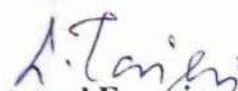
**Date:** 17.09.2020

  
**Signature of the Head of the Department**

**Dr.G. SELVALAKSHMI, M.Com.,M.Phil.,Ph.D.,SET**  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for women,

**Date of Viva-Voce Exam:** 17.09.2020

  
**Signature of the Supervisor**

  
**Internal Examiner**

  
**External Examiner**

**Mrs. G. SATHIYA SANGARI, M.Com., M.Phil., Dip(Yoga),SET.,NET.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled **“A STUDY ON INVESTMENT PATTERN OF PRIVATE SECTOR EMPLOYEES IN NAMAKKAL TOWN”** submitted to the Periyar University, Salem partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **M. GOBIKA (Reg. No. 18PCM1203)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

**Signature of the Head of the Department**  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

**Date of Viva-Voce Exam:** 17.09.2020

**Signature of the Supervisor**

**Internal Examiner**

**External Examiner**



Mrs. G.NITHIYA, M.Com.,M.Phil.,D.Co.op.,M.A.(Yoga),,NET.,M.B.A.,

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

### CERTIFICATE

This is to certify that the project report entitled "A STUDY OF CUSTOMER SATISFACTION TOWARDS DABUR RED TOOTHPASTE IN NAMAKKAL TOWN" submitted to the Periyar University, salem in partial fullfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **G.T.GOKILA & 18PCM1204** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 17.9.2020

Signature of the Head of the Department

G. Nithiya  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

Date of Viva-Voce Exam: 17.9.2020

Signature of the Supervisor

Internal Examiner

External Examiner

rs. M.RAMYA, M.Com., M.Phil., Dip(Yoga)., COA.,

ssistant Professor,

G & Research Department of Commerce,

rinity College for Women,

amakkal.

### CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CONSUMER BEHAVIOUR TOWARDS ONLINE SHOPPING WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" submitted to the Periyar University, Salem partial fulfillment of the requirement for the award of the degree of Master of commerce is a record of bonafied project work carried out by **M.GOKULA PRIYA, Reg.No.18PCM1205** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 17.09.2020

Dr.G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET,  
Assistant Professor & Head,  
Signature of the head of the Department  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

M. Ramya  
Signature of the Supervisor

Date of Viva-Voce Exam: 17.09.2020

G. Selva  
Internal Examiner

G. Selva  
External Examiner

**Mrs. K. AMUTHA, M.Com., M.Phil**

Assistant professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

### **CERTIFICATE**

This is to certify that the **project report** entitled "**A STUDY Of CUSTOMER SATISFACTION TOWARDS MAHINDRA TRACTORS WITH SPECIAL REFERENCE TO NAMAKKAL TOWN**" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **I. GOWSALYA, Reg.No.18PCM1206** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prize and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place: Namakkal**

**Date:** 17.09.2020

**Signature of the Head of the Department**

**D.R. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET**

Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,

**Data of Viva-voce Exam:** 17.09.2020

**Internal examiner**

**Signature of the Supervisor**

**External Examiner**



**Mrs. M. UMAMAGESWARI, M.Com., M.Phil., PGDCA.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

## **CERTIFICATE**

This is to certify that the project report entitled "**A STUDY ON CHALLENGES AND ISSUES FACED BY AN ENTREPRENEUR IN NAMAKKAL TOWN**" submitted to the **Periyar University**, Salem in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **P. S. INDHU, Reg. No. 18PCM1207** under my supervision and guidance, No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or Prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place: Namakkal**

**Date: 17.09.2020**

  
**Signature of the Head of the Department**

**P. S. SELVAPALAN**, M.Com., M.Phil., Ph.D., SET  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

  
**Signature of the Supervisor**

**Date of Viva-Voce Examination 17.09.2020**

  
**Internal Examiner**

  
**External Examiner**


**Dr. M. SASIKALA, M.Com., M.Phil., M.B.A., Dip(yoga)., SET., Ph.D.,**  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

### **CERTIFICATE**

This is to certify that the project work entitled "**A STUDY ON JOB SATISFACTION OF EMPLOYEES WITH SPECIAL REFERENCE TO SARANYA SPINNING MILLS (P) LIMITED, ERUMAPATTI**" submitted to the **Periyar University, Salem** in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **A. KIRUTHIKA, Reg.No.18PCM1208** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

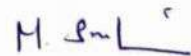
**Date:** 17-09-2020

  
**SIGNATURE OF THE**  
**HEAD OF THE DEPARTMENT**

**Dr. M. Sasikala**  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

**Date of Viva-Voce Exam:** 17-09-2020

  
**INTERNAL EXAMINER**

  
**SIGNATURE OF THE**  
**SUPERVISOR**

  
**EXTERNAL EXAMINER**

**Dr.L.TAMILSELVI, M.Com.,M.Phil.,M.B.A.,Ph.D.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the Project Report entitled "**A STUDY ON CUSTOMER SATISFACTION TOWARDS SAMSUNG AIR CONDITIONER IN NAMAKKAL TOWN**" submitted to the Periyar University, salem in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **S.MALLIKA & 18PCM1209** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

**Signature of the Head of the Department**

*G. Selvakumaran*  
Dr.G. SELVALAKSHMI  
Assistant Professor, Head  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 007.

**Date of Viva-Voce Exam:** 17.09.2020

**Signature of the supervisor**

*L. TAMILSELVI*  
**Internal Examiner**

*G. Selvakumaran*  
**External Examiner**



**Mrs. G.NITHYA, M.Com.,M.Phil.,D.Co.op.,M.A.(Yoga),,NET.,M.B.A.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

### **CERTIFICATE**

This is to certify that the Project Report entitled **“CUSTOMER ATTITUDE TOWARDS HYUNDAI CAR IN NAMAKKAL TOWN – A STUDY”** submitted to the Periyar University, salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **K.NANDHINI & 18PCM1211** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

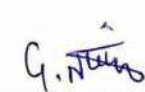
**Place:** Namakkal

**Date:** 17.9.2020

  
**Signature of the Head of the Department**

Dr. G. SELVALAKSHMI, M.Com., M.Phil., PhD, SET  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

**Date of Viva-Voce Exam:** 17.9.2020

  
**Signature of the Supervisor**

  
**Internal Examiner**

  
**External Examiner**

**Mrs.D.VALARMATHI, M.Com., M.Phil., M.B.A.,B.Ed.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled "A STUDY ON FINANCIAL PERFORMANCE ANALYSIS OF ICICI BANK" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **S.NANDHINI (Reg. No. 18PCM1212)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

**Dr.G. SELVALAKSHMI M.Com., M.Phil., Ph.D., SET**  
**Signature of the Head of the Department**  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

Date of Viva-Voce Exam: 17.09.2020

**Signature of the Supervisor**

**G. Selvakshmi**  
**Internal Examiner**

**G. Selvakshmi**  
**External Examiner**

**Mrs. M. UMAMAGESWARI, M.Com, M.Phil., PGDCA.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,


Namakkal.

## **CERTIFICATE**


This is to certify that the project report entitled “ **A STUDY ON CUSTOMER SATISFACTION TOWARDS LG WASHING MACHINE WITH SPECIAL REFERENCE TO NAMAKKAL TOWN**” submitted to the **Periyar University, Salem** in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **G.PARAMESHWARI (Reg No:18PCM1213)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not be published in part or full in scientific or popular journals or magazines.

**Place: Namakkal**


**Date: 17.09.2020**

  
**Signature of the Head of the Department**

**Dr. G. SELLAMANI**  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

  
**Signature of the Supervisor**

Date of Viva-Voce Exam: 17.9.2020

  
**Internal Examiner**

  
**External Examiner**



Mrs. M.RAMYA., M.Com., M.Phil., Dip(Yoga)., COA.,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

### CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS ROYAL ENFIELD BIKES IN NAMAKKAL TOWN" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by R.PAVITHRA (Reg. No. 18PCM1214) under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

  
Signature of the Head of the Department

Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

Date of Viva-Voce Exam: 17.09.2020

  
Signature of the Supervisor

  
Internal Examiner

  
External Examiner

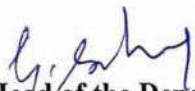
Mrs. K. AMUTHA, M.Com., M.Phil.,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for women,  
Namakkal.

### CERTIFICATE

This is to certify that the Project Report entitled "A STUDY ON CONSUMER BUYING BEHAVIOUR TOWARDS NESCAFE SUNRISE WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by P. POONGODI (Reg. No. 18PCM1215) under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 17.09.2020

  
Signature of the Head of the Department

Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET

Assistant Professor & Head,


PG & Research Department of Commerce,

Trinity College for Women,

Date of Viva-Voce Exam: 17.09.2020

  
Signature of the Supervisor

  
Internal Examiner

  
External Examiner


**Dr.G.SELVALAKSHMI, M.Com.,M.Phil.,M.B.A.,Ph.D., Dip(Yoga)., SET.,**  
Assistant Professor and Head.,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

### CERTIFICATE

This to certify that the project report entitled "**A STUDY ON CUSTOMER'S SATISFACTION TOWARDS HIMALAYA SHAMPOO IN NAMAKKAL TOWN**" submitted to the **Periyar University, Salem** in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **A.PRIYADHARSHINI, Reg.No: 18PCM1217** under my supervision and guidance. No part of this project report work has been submitted for the award of any Degree, Diploma, Fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place: Namakkal**

**Date: 17.09.2020**

  
**SIGNATURE OF THE HEAD**

**Dr.G.SELVALAKSHMI, M.Com.,M.Phil.,M.B.A.,Ph.D.,SET**  
**OF THE DEPARTMENT**

Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

Date of Viva-Voce Examination 17.09.2020

  
**SIGNATURE OF THE**  
**SUPERVISOR**

  
**INTERNAL EXAMINER**

  
**EXTERNAL EXAMINER**




Mrs. G.NITHYA, M.Com.,M.Phil.,D.Co.op.,M.A.(Yoga),,NET.,M.B.A.,  
Assistant Professor,  
PG & Research Department of Commerce,  
Trinity College for women,  
Namakkal.

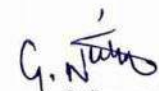
### CERTIFICATE

This is to certify that the Project Report entitled **“USER BRAND PREFERENCE TOWARDS WRIST WATCH WITH SPECIAL REFERENCE TO NAMAKKAL TOWN”** submitted to the Periyar University, salem in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **R.PRIYADHARSHINI & 18PCM1218** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.


Place: Namakkal

Date: 17.9.2020

  
**Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET**  
Signature of the Head of the Department  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002  
Date of Viva-Voce Exam: 17.9.2020

  
Signature of the supervisor

  
Internal Examiner

  
External Examiner

**Mrs. G. SATHIYA SANGARI, M.Com., M.Phil., Dip(Yoga).,SET.,NET.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled "**A STUDY ON STRESS MANAGEMENT AMONG EMPLOYED WOMEN IN NAMAKKAL TOWN**" submitted to the Periyar University, Salem partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **G.PRIYANKA (Reg. No. 18PCM1219)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

**Signature of the Head of the Department**

**G. SATHIYA SANGARI, M.Com., M.Phil., P.D., SET**  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for women,  
Namakkal - 637 402

**Date of Viva-Voce Exam:** 17.09.2020

**Signature of the Supervisor**

**G. SATHIYA SANGARI**  
Internal Examiner

**G. SATHIYA SANGARI**  
External Examiner

**Dr. G.SELVALAKSHMI, M.Com., M.Phil., M.B.A., Ph.D., Dip(yoga)., SET.,**

Assistant Professor and Head,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled "A REVIEW ON CONSUMER BRAND PREFERENCE ON THE CONSUMPTION OF SUNFLOWER OIL WITH REFERENCE TO NAMAKKAL TOWN" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of **MASTER OF COMMERCE** is a record of bonafied project work carried out by **S.REKA (Reg. No. 18PCM1220)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not be published in part or full in any scientific or popular journals or magazines.


**Place: Namakkal**

**Date:** 17.09.2020

  
**Signature of the Head of the Department**

Dr. G. SELVALAKSHMI, M.Com., M.Phil., M.B.A., Ph.D., SET.,  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002

**Date of Viva-Voce Exam:** 17.09.2020

  
**Signature of the Supervisor**

  
**Internal Examiner**

  
**External Examiner**



**Mrs. M. UMAMAGESWARI., M.Com., M.Phil., PGDCA.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,


Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled **"A STUDY ON FINANCIAL PERFORMANCE OF FEDERAL BANK LIMITED"** submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **R.RENUGA (Reg. No. 18PCM1221)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

  
**Dr. G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET**  
**Signature of the Head of the Department**  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

**Date of Viva-Voce Exam:** 17.09.2020

  
**Signature of the Supervisor**

  
**Internal Examiner**

  
**External Examiner**

**Mrs.D.VALARMATHI, M.Com., M.Phil., M.B.A.,B.Ed.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### CERTIFICATE

This is to certify that the project report entitled "A STUDY OF CONSUMER SATISFACTION TOWARDS AMUL ICE CREAM IN NAMAKKAL TOWN" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by M.SASIREKHA (Reg. No. 18PCM1223) under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 17.09.2020

Dr.G. SELVALAKSHMI  
Signature of the Head of the Department  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

Date of Viva-Voce Exam: 17.09.2020

G. Selvakumar  
Internal Examiner

Signature of the Supervisor

External Examiner

**Dr. M.SASIKALA, M.Com., M.Phil., M.B.A., Dip(Yoga)., SET., Ph.D.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled "**A STUDY ON CUSTOMER SATISFACTION TOWARDS BANKING SERVICES WITH SPECIAL REFERENCE TO INDIAN BANK IN NAMAKKAL TOWN**" submitted to the **Periyar University, Salem** in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **P.SOUNDHARIYA, Reg. No. 18PCM1224** under my supervision and guidance, no part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or Prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 17-09-2020

  
SIGNATURE OF THE

**HEAD OF THE DEPARTMENT**

**Dr.G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET**  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

  
SIGNATURE OF THE

**SUPERVISOR**

**Date of Viva-Voce Examination** 17-09-2020

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



**Dr.L.TAMILSELVI, M.Com.,M.Phil.,M.B.A.,Ph.D.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal.

### CERTIFICATE

This is to certify that the Project Report entitled “ A STUDY ON CONSUMERS’ PERCEPTION AND SATISFACTION TOWARDS ORGANIC PRODUCTS IN NAMAKKAL TOWN” submitted to the Periyar University, salem in partial fulfillment of the requirement for the award of the degree of **Master of Commerce** is a record of bonafied project work carried out by **S.SUBHASHREE & 18PCM1225** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in scientific or popular journals or magazines.

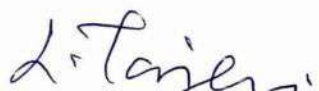
Place: *Namakkal*


Date: *17.09.2020*


  
Signature of the Head of the Department

Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637008

Date of Viva-Voce Exam: *17.09.2020*

  
Signature of the Supervisor

  
Internal Examiner

  
External Examiner

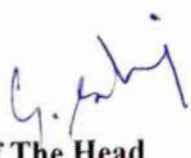
**Mrs.K.AMUTHA, M.Com.,M.Phil.,**  
Assistant Professor  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal.

### **CERTIFICATE**

This is to certify that the Project Report entitled **"A STUDY OF CONSUMER PREFERENCE TOWARDS SUNFEAST DARK FANTASY BISCUITS IN NAMAKKAL TOWN"** submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **S.SUGANYA, Reg.No: 18PCM1226** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.


PLACE: *Namakkal*

DATE: *17.09.2020*

  
Signature of The Head

**of the Department**  
B.G. SUGANYA, M.Com., M.Phil., Ph.D., SET  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

Date of Viva-Voce Examination *17.09.2020*

  
Signature of the  
Supervisor

  
Internal Examiner

  
External Examiner

Dr. M.SASIKALA, M.Com., M.Phil., M.B.A., Dip(Yoga), SET., Ph.D.,

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for Women,

Namakkal.

### CERTIFICATE

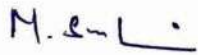
This is to certify that the project report entitled "A STUDY OF CUSTOMER SATISFACTION TOWARDS PEARS SOAP IN NAMAKKAL TOWN" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by M.SWARNALATHA, Reg. No. 18PCM1227 under my supervision and guidance, no part of this project report work has been submitted for the award of any degree, diploma, fellowship or other similar titles or Prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

Place: Namakkal

Date: 17-09-2020

  
SIGNATURE OF THE

HEAD OF THE DEPARTMENT  
Dr.G. SELVALAKSHMI, M.Com, M.Phil, Ph.D., SET  
Assistant Professor & Head,  
PG & Research Department of Commerce,  
Trinity College for Women,  
Namakkal - 637 002.

  
SIGNATURE OF THE  
SUPERVISOR

Date of Viva-Voce Examination 17.09.2020

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



**Mrs.G.SATHIYA SANGARI, M.Com., M.Phil., Dip(Yoga), SET., NET.,**

Assistant Professor,

PG & Research Department of Commerce,

Trinity College for women,


Namakkal.

### **CERTIFICATE**

This is to certify that the project report entitled "**A STUDY ON FINANCIAL PERFORMANCE OF HDFC BANK LIMITED**" submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the degree of Master of Commerce is a record of bonafied project work carried out by **R.VANMATHI (Reg. No. 18PCM1228)** under my supervision and guidance. No part of this project report work has been submitted for the award of any degree, diploma fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journals or magazines.

**Place:** Namakkal

**Date:** 17.09.2020

  
**Signature of the Head of the Department**

**Dr.G. SELVALAKSHMI, M.Com., M.Phil., Ph.D., SET**

Assistant Professor & Head,

PG & Research Department of Commerce,

Trinity College for women,

Namakkal - 637 002.

**Date of Viva-Voce Exam:** 17.09.2020

  
**Signature of the Supervisor**

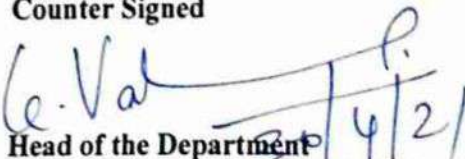
  
**Internal Examiner**

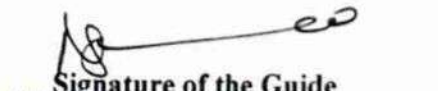
  
**External Examiner**

## CERTIFICATE

This is to certify that the dissertation entitled, "AN ENHANCED ACCESSIBLE BANDWIDTH ASSESSMENT PROCEDURE FOR AN END-TO-END NETWORK PATH" Submitted to Periyar University in partial fulfillment of the requirement for the award of degree of **MASTER OF PHILOSOPHY IN COMPUTER SCIENCE (FT)** is a record of original research work done by **K.JANANI, Reg.No:19CAE1025** during the period **2019-2020** of her study in the Department of Computer Science, Trinity College for Women, Namakkal, Affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for award of any Degree/Diploma/Associateship/Fellowship or other similar to any candidate of any university.

### Counter Signed

  
**Head of the Department**  
Mrs. K. VALARMATHI, M.C.A., M.Phil.,  
Head of the Department,  
Dept. of Computer Science,  
Trinity College for Women,  
Namakkal - 637 002.

  
**Signature of the Guide**  
N.S. SENTHILKUMAR, M.C.A., M.Phil.,  
Asst. Professor,  
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Mohanur Road, Namakkal.

### Examiners

1. 


2.

  
**Principal**  
Dr. M.R. LAKSHMINARAYANAN,  
Principal,  
Trinity College for Women (Arts & Science),  
Namakkal - 637 002.

## CERTIFICATE


This is to certify that the dissertation entitled, "A NEIGHBOR TRUST-BASED MECHANISM TO PROTECT MOBILE NETWORKS" Submitted to Periyar University in partial fulfillment of the requirement for the award of degree of MASTER OF PHILOSOPHY IN COMPUTER SCIENCE (FT) is a record of original research work done by N.KOWSALYA, Reg.No:19CAE1026 during the period 2019-2020 of her study in the Department of Computer Science, Trinity College for Women, Namakkal, Affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for award of any Degree/Diploma/Associateship/Fellowship or other similar to any candidate of any university.


### Counter Signed

  
Head of the Department  
Mrs. K. VALARMATHI, B.Tech, M.A., M.Phil.,  
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### Examiners

1. 
- 2.

  
Signature of the Guide  
Mrs. R. NAVAMANI, M.Sc., M.Phil.,  
Asst. Professor,  
Dept. of Computer Science,  
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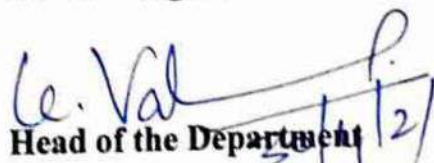
  
Principal  
Dr. M.R. LAKSHMINARAYANAN,  
Principal,  
Trinity College for Women (Arts & Science),  
Namakkal - 637 002.



## CERTIFICATE

This is to certify that the dissertation entitled, "STAMP: ENABLING PRIVACY-PRESERVING LOCATION PROOFS FOR MOBILE USERS" Submitted to Periyar University in partial fulfillment of the requirement for the award of degree of MASTER OF PHILOSOPHY IN COMPUTER SCIENCE (FT) is a record of original research work done by M.MALLIGA, Reg.No:19CAE1027 during the period 2019-2020 of her study in the Department of Computer Science, Trinity College for Women, Namakkal, Affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for award of any Degree/Diploma/Associateship/Fellowship or other similar to any candidate of any university.

### Counter Signed


  
Head of the Department


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Head of the Department,  
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Trinity College for Women,  
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### Examiners

1. 

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Signature of the Guide  
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Namakkal - 637 002.

  
Principal  
Dr. M.R. LAKSHMINARAYANAN,  
Principal,  
Trinity College for Women (Arts & Science),  
Namakkal - 637 002.

## CERTIFICATE

This is to certify that the dissertation entitled, "**PRIMARY USER-AWARE OPTIMAL DISCOVERY ROUTING FOR COGNITIVE RADIO NETWORKS**" Submitted to Periyar University in partial fulfillment of the requirement for the award of degree of **Master of Philosophy in Computer Science (FT)** is a record of original research work done by **S.NANDHINI**, **Reg.No:19CAE1028** during the period 2019-2020 of her study in the Department of Computer Science, Trinity College for Women, Namakkal, Affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for award of any Degree/Diploma/Associateship/Fellowship or other similar to any candidate of any university.

### Counter Signed



**Head of the Department**

**Mrs. K. VALARMATHI, M.C.A., M.Phil.,**  
Head of the Department,  
Dept. of Computer Science,  
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Namakkal - 637 002.

### Examiners

1. 

2.



**Signature of the Guide**

**Dr. N. ELAMATHI, M.Sc., MCA., M.Phil., Ph.D**

ASST. PROFESSOR,

DEPT. OF COMPUTER SCIENCE,

TRINITY COLLEGE OF WOMEN

NAMAKKAL.

  
**Principal**

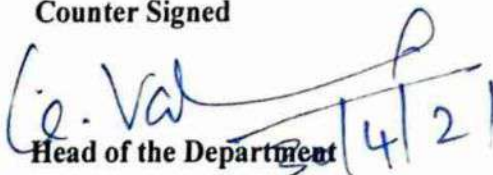
**Principal,**

Trinity College for Women (Arts & Science),  
Namakkal - 637 002.


## CERTIFICATE

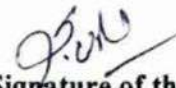
This is to certify that the dissertation entitled, "INACCESSIBLE MULTIMODAL BIOMETRIC RECOGNITION BASED ON THE FUSION OF THE IRIS AND THE FINGERPRINT" Submitted to Periyar University in partial fulfillment of the requirement for the award of degree of MASTER OF PHILOSOPHY IN COMPUTER SCIENCE (FT) is a record of original research work done by M.RAJALAKSHMI, Reg.No:19CAE1029 during the period 2019-2020 of her study in the Department of Computer Science, Trinity College for Women, Namakkal, Affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for award of any Degree/Diploma/Associateship/Fellowship or other similar to any candidate of any university.

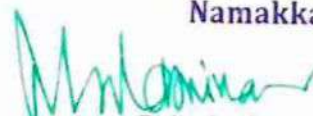
### Counter Signed

  
Head of the Department  
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### Examiners

1. 
- 2.

  
Signature of the Guide  
Mrs. S. USHARANI, M.Sc., M.Phil., M.C.A.,  
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Principal  
Dr. M.R. LAKSHMINARAYANAN,  
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Trinity College for Women (Arts & Science),  
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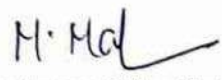


## CERTIFICATE

This is to certify that the dissertation entitled, "**MULTI-PARTY SECRET KEY CONCURRENCE OVER STATE DEPENDENT WIRELESS TRANSMIT CHANNELS**" Submitted to Periyar University in partial fulfillment of the requirement for the award of degree of **MASTER OF PHILOSOPHY IN COMPUTER SCIENCE (FT)** is a record of original research work done by **E.SHARMILA**, Reg.No:19CAE1030 during the period **2019-2020** of her study in the Department of Computer Science, Trinity College for Women, Namakkal, Affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for award of any Degree/Diploma/Associateship/Fellowship or other similar to any candidate of any university.

### Counter Signed


  
**Head of the Department**  
**Mrs. K. VALARMATHI**, M.C.A., M.Phil.,  
Head of the Department,  
Dept. of Computer Science,  
Trinity College for Women,  
Namakkal - 637 002.

  
**Signature of the Guide**  
**M. MALATHI**, MCA., M.Phil.,  
Assistant Professor in Computer Science  
Trinity College for Women,  
Namakkal.

### Examiners

1. 

2.

 30.4.2021  
**Principal**  
**Dr. M.R. LAKSHIMINARAYANAN**,  
Principal,  
Trinity College for Women (Arts & Science),  
Namakkal - 637 002.

Dr. M. SASIKALA, M.Com., M.Phil., MBA., Dip (Yoga), SET., Ph.D.,  
Assistant Professor,

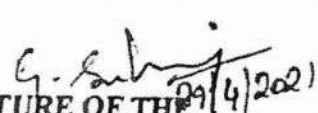
PG & Research Department of Commerce,

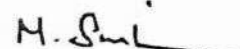
Trinity College for Women,

Namakkal.

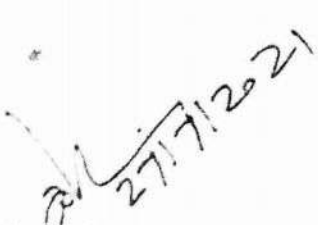
## CERTIFICATE

This is to certify that the dissertation entitled "AN ANALYSIS ON FINANCIAL PERFORMANCE OF CHETTINAD CEMENT CORPORATION LTD., PULIYUR, KARUR DISTRICT" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF PHILOSOPHY IN COMMERCE (FT) is a record of original research work done by R. INDHUMATHI (Reg. No: 19CAD1027) during the period 2019-2020 of her study in the PG & Research Department of Commerce, Trinity College for Women, Namakkal, affiliated to Periyar University, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associateship/ Fellowship or other similar title to any candidate of any University.


  
SIGNATURE OF THE  
HEAD OF THE DEPARTMENT

  
SIGNATURE OF THE GUIDE  
Dr. M. SASIKALA

Viva - Voce Examination held on

  
EXTERNAL EXAMINER

Dr. K. RAJKUMAR, M.Com., MBA., Ph.D.  
Asst Professor & Head  
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PRINCIPAL

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