



**ARIGNAR ANNA GOVERNMENT ARTS COLLEGE  
NAMAKKAL – 637 002**

(Re-Accredited with 'B' Grade by NAAC & Affiliated to Periyar University, Salem)

**CRITERION I**

**1. CURRICULAR ASPECTS**

**1.3 CURRICULUM ENRICHMENT**

**1.3.2 Number of students undertaking  
project work/field work/internship**

**2017-2018**

நெறியாளர் சான்றிதழ்

முனைவர் து.இரவிக்குமார்.,எம்.ஏ.,எம்.பில்.,பி.எச்.டி.,டி.சி.ஏ.,சி.ஜி.டி.,

தமிழ் உதவிப் பேராசிரியர்,

தமிழ்த்துறை,

அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,

நாமக்கல் 637 002.

"சமுதாயப் பார்வையில் முகவியனின் மவுனவேட்கை" என்னும் தலைப்பில் ஆய்வாளர் து.தீபா (பதிவு எண் 16PTA1046) அவர்களால் அளிக்கப் பெற்றுள்ள இந்த ஆய்வேடு பெரியார் பல்கலைக்கழகத் தமிழ் முதுகலைப்பட்டப் பேற்றிற்காக 2016-2018ஆம் கல்வி ஆண்டில் அறிஞர் அண்ணா அரசு கலைக்கல்லூரித் தமிழ்த்துறையில் ஆய்வாளரின் சொந்த முயற்சியால் உருவாக்கப்பட்டது. இவ்வாய்வேடு வேறு எந்தப் பட்டப்பேற்றிற்காகவும் எந்தப் பல்கலைக்கழகத்திற்கும் வழங்கப் பெறவில்லை என்று சான்றளிக்கிறேன்.

  
துறைத்தலைவர்

தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

  
நெறியாளர் 10/4/18

முனைவர். து. இரவிக்குமார்  
தமிழ் உதவிப் பேராசிரியர்,  
(முனைவர் து.இரவிக்குமார்)  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,  
நாமக்கல் - 637 002.

இடம் : நாமக்கல்

நாள் 11.04.18



நெறியாளர் சான்றிதழ்

முனைவர் அ. சின்னதுரை, எம். ஏ., எம். பில்., பி. எச். டி.,

தமிழ் உதவிப் பேராசிரியர்

தமிழ்த்துறை


அறிஞர் அண்ணா அரசு கலைக்கல்லூரி

நாமக்கல் - 637 002.

"சமூகவியல் நோக்கில் ஒரு வெள்ளாட்டின் கதை" என்னும் தலைப்பில் முதுகலைத் தமிழ் (எம். ஏ) பட்டத்தின் பகுதி நிறைவாக அளிக்கப்பெறும் இவ்வாய்வேடு அறிஞர் அண்ணா அரசு கலைக்கல்லூரியில் 2016-2018 ஆம் கல்வியாண்டில் பயின்ற மாணவன் செ. தயாநிதியின் (பதிவு எண் 16PTA1047) சொந்த முயற்சியால் உருவானது என்றும் இதற்குமுன் வேறு எந்தப் ஆராய்ச்சிக்கும் அளிக்கப்படவில்லை என்றும் சான்றளிக்கிறேன்.

  
தமிழ்த்துறைத்தலைவர்

தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

  
முனைவர் அ. சின்னதுரை  
தமிழ் உதவிப் பேராசிரியர்  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி  
நாமக்கல் - 637 002.

இடம் :

நாள் 11. 4. 18

## நெறியாளர் சான்றிதழ்

அரசுபரமேசுவரன் எம்.ஏ., எம்.ஏ., எம்.ஃபில்., பிஎச்.டி  
உதவிப் பேராசிரியர், தமிழ்த்துறை,  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,  
நாமக்கல்-637 002.

“சமூகவியல் நோக்கில் கள்ளிக்காட்டு இதிகாசம்” என்னும் தலைப்பில் முதுகலைத் தமிழ் (எம்.ஏ) பட்டத்தின் பகுதி நிறைவாக அளிக்கப்பெறும் இவ்வாய்வேடு நாமக்கல் அறிஞர் அண்ணா அரசு கலைக்கல்லூரி தமிழ்த்துறையில் 2016-2018 ஆம் கல்வியாண்டில் பயிலும் மாணவர் த.மணிகண்டன் அவர்களின் சொந்த முயற்சியால் உருவானது என்றும் இதற்கு முன் வேறு எந்த ஆராய்ச்சிக்கும் இவ்வாய்வேடு அளிக்கப்படவில்லை என்றும் சான்றளிக்கிறேன்.

  
தமிழ்த் துறைத்தலைவர்

நெறியாளர்  
  
(முனைவர். அரசுபரமேசுவரன்)  
பேராசிரியர், டாக்டர் அரசுபரமேசுவரன்  
M.A., M.A., M.Phil., PG.DPM., Ph.D.,  
உதவிப்பேராசிரியர் -- தமிழ்த்துறை  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி  
நாமக்கல் - 637 002

இடம்: நாமக்கல்

நாள்: 11.4.18

## நெறியாளர் சான்றிதழ்

அரசுபரமேசுவரன் எம்.ஏ., எம்.ஏ., எம்ஃபில்., பிஎச்.டி  
உதவிப் பேராசிரியர், தமிழ்த்துறை,  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,  
நாமக்கல்-637 002.

“சமூகவியல் நோக்கில் கள்ளிக்காட்டு இதிகாசம்” என்னும் தலைப்பில் முதுகலைத் தமிழ் (எம்.ஏ) பட்டத்தின் பகுதி நிறைவாக அளிக்கப்பெறும் இவ்வாய்வேடு நாமக்கல் அறிஞர் அண்ணா அரசு கலைக்கல்லூரி தமிழ்த்துறையில் 2016-2018 ஆம் கல்வியாண்டில் பயிலும் மாணவர் த.மணிகண்டன் அவர்களின் சொந்த முயற்சியால் உருவானது என்றும் இதற்கு முன் வேறு எந்த ஆராய்ச்சிக்கும் இவ்வாய்வேடு அளிக்கப்படவில்லை என்றும் சான்றளிக்கிறேன்.

  
தமிழ்த் துறைத்தலைவர்

தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

நெறியாளர்

  
(முனைவர்.அரசுபரமேசுவரன்)  
பேராசிரியர். டாக்டர் அரசுபரமேசுவரன்  
M.A., M.A., M.Phil., PG.DPM., Ph.D.,  
உதவிப்பேராசிரியர் - தமிழ்த்துறை  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி  
நாமக்கல் - 637 002

இடம்: நாமக்கல்

நாள்: 11.4.18



நெறியாளர் சான்றிதழ்

முனைவர் மு.நடராஜன், எம்.ஏ., எம்.பில்., பி.எச்.டி.,

தமிழ்த்துறைத் தலைவர்,

தமிழ்த்துறை,

அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,

நாமக்கல் 637 002.

"சமூகவியல் நோக்கில் தொடுவானம்" என்னும் தலைப்பில் ஆய்வாளர் சா.மோகனப்பிரியா (பதிவு எண் 16PTA1049) அவர்களால் அளிக்கப் பெற்றுள்ள இந்த ஆய்வேடு பெரியார் பல்கலைக்கழகத் தமிழ் முதுகலைப் பட்டப்பேற்றிற்காக 2016-2018ஆம் கல்வி ஆண்டில் அறிஞர் அண்ணா அரசு கலைக்கல்லூரித் தமிழ்த்துறையில் ஆய்வாளரின் சொந்த முயற்சியால் உருவாக்கப்பட்டது. இவ்வாய்வேடு வேறு எந்தப் பட்டப்பேற்றிற்காகவும் எந்தப் பல்கலைக்கழகத்திற்கும் வழங்கப் பெறவில்லை என்று சான்றளிக்கிறேன்.



துறைத்தலைவர்

தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

நெறியாளர்

  
(முனைவர். மு.நடராஜன்)  
தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

இடம் : நாமக்கல்

நாள் : 11.4.18

நெறியாளர் சான்றிதழ்

முனைவர் பி.கந்தசாமி

உதவிப்பேராசிரியர்

தமிழ்த்துறை.

அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,

நாமக்கல் 637 002.

'கவிஞர் நா.முத்துகுமாரின் பட்டாம்பூச்சி விற்பவனில் சமூகம்' என்னும் தலைப்பில் ஆய்வாளர் மு.சுரேந்திரன் (பதிவு எண் 16PTA1050) அவர்களால் அளிக்கப் பெற்றுள்ள இந்த ஆய்வேடு பெரியார் பல்கலைக்கழகத் தமிழ் முதுகலைப் பட்டப்பேற்றிற்காக 2016-2018ஆம் கல்வி ஆண்டில் அறிஞர் அண்ணா அரசு கலைக்கல்லூரித் தமிழ்த்துறையில் ஆய்வாளரின் சொந்த முயற்சியால் உருவாக்கப்பட்டது. இவ்வாய்வேடு வேறு எந்தப் பட்டப்பேற்றிற்காகவும் எந்தப் பல்கலைக்கழகத்திற்கும் வழங்கப் பெறவில்லை என்று சான்றளிக்கிறேன்.

சு. முனைவர்  
துறைத்தலைவர்

11.04.18  
நெறியாளர்

தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

(முனைவர்.பி.கந்தசாமி)

முனைவர். பி. கந்தசாமி, எம்.எ.எஸ்.உதவிப்பேராசிரியர்,  
உதவிப்பேராசிரியர், தமிழ்த்துறை,  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,  
நாமக்கல்-637 002.

இடம் : நாமக்கல்

நாள் 11.4.18



## நெறியாளர் சான்றிதழ்

முனைவர் க.அன்பரசன், எம்.,ஏ.,எம்.எட்.,எம்ஃபில்.,பி.எச்.டி.,

உதவிப் பேராசிரியர், தமிழ்த்துறை,

அறிஞர் அண்ணா அரசு கலைக்கல்லூரி,

நாமக்கல்-637 002.

“சிறுபாணாற்றுப்படை காட்டும் வாழ்வியல் கூறுகள்” என்னும் தலைப்பில் முதுகலைத் தமிழ் (எம்.ஏ) பட்டத்தின் பகுதி நிறைவாக அளிக்கப்பெறும் இவ்வாய்வேடு நாமக்கல் அறிஞர் அண்ணா அரசு கலைக்கல்லூரி தமிழ்த்துறையில் 2016-2018 ஆம் கல்வியாண்டில் பயிலும் மாணவர் இ.விஜய்குமார் அவர்களின் சொந்த முயற்சியால் உருவானது என்றும் இதற்கு முன் வேறு எந்த ஆராய்ச்சிக்கும் இவ்வாய்வேடு அளிக்கப்படவில்லை என்றும் சான்றளிக்கிறேன்.

  
தமிழ்த் துறைத்தலைவர்

தமிழ்த்துறைத் தலைவர்  
அறிஞர் அண்ணா கலைக்கல்லூரி  
நாமக்கல் - 637 002.

இடம்: நாமக்கல்

நாள்: 10.04.2018

  
நெறியாளர் 10.04.2018

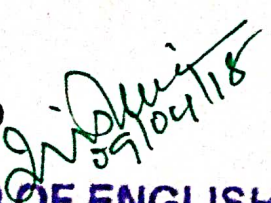
(முனைவர்.க.அன்பரசன்)  
முனைவர். க. அன்பரசன்,  
உதவிப் பேராசிரியர்  
தமிழ்த்துறை  
அறிஞர் அண்ணா அரசு கலைக்கல்லூரி  
நாமக்கல் - 637 002.



## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY OF HUMAN DESTINES IN THOMAS HARDY'S *FAR FROM THE MADDING CROWD*" submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Mr. RAJKAMAL** during the period of 2016-2018 of his study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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39/04/18  
**HOD OF ENGLISH**

**ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637002**

  
**SUPERVISOR**

**Dr. K. RAMACHANDRAN  
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**EXTERNAL EXAMINER**

**P. THIRUNAVUKKARASU M.A., M.Phil.,  
Asst. Prof of English  
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## CERTIFICATE

This is to certify that the dissertation entitled "A CRITICAL STUDY OF R. K. NARAYAN'S *WAITING FOR THE MAHATMA*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of MASTER OF ARTS IN ENGLISH is a record of original research work done by Mr. R. SAKTHI during the period 2016-2018 of his study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY OF QUEST FOR SPIRITUAL ENLIGHTENMENT IN HERMANN HESSE'S *SIDDHARTHA*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Mr. S. SANDEEPKUMAR** during the period 2016-2018 of his study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY OF HUMOUR AND IRONY IN R.K NARAYAN'S *THE GUIDE*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Mr. C. SELLAMUTHU** during the period of 2016-2018 of his study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

HOD

*S. S. S. S. S.*  
09/04/18  
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*K. Ramachandran*  
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*P. Thirunavukkarasu*  
**EXTERNAL EXAMINER**

**P. THIRUNAVUKKARASU M.A..M.Phil.,**  
- Asst. Prof of English  
Subramaniam Arts & Science College,  
Mohanur, Namakkal (Dt.)



# CERTIFICATE

This is to certify that the dissertation entitled "**A STUDY OF LOVE AND SELF-SEARCH IN ANITA DESAI'S *CRY THE PEACOCK***", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Mr. M. SURESH** during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

HOD

*M. Suresh*  
09/10/18

HOD OF ENGLISH

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*M. Suresh*  
09/10/18

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*P. Thirunavukkarasu*  
EXTERNAL EXAMINER

P. THIRUNAVUKKARASU M.A.,M.Phil.,  
Asst. Prof of English  
S. Subramaniam Arts & Science College,  
Arignar, Namakkal (Dt.)



# CERTIFICATE

This is to certify that the dissertation entitled 'EXPOSURE OF REALITY AND APPEARANCE IN OLIVER GOLDSMITH'S *SHE STOOPS TO CONQUER*', submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of MASTER OF ARTS IN ENGLISH is a record of original research work done by Ms. R. BRUNTHA during 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

HOD

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09/04/18  
HOD OF ENGLISH

ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637002

*[Signature]*  
09/04/18  
SUPERVISOR

*[Signature]*  
EXTERNAL EXAMINER

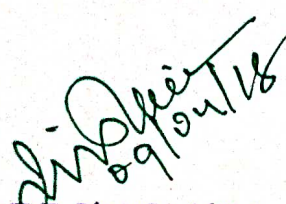
P. THIRUNAVUKKARASU M.A.,M.Phil.,  
Asst. Prof of English  
Suhramaniam Arts & Science College,  
Iranur, Namakkal (Dt.)



# CERTIFICATE

This is to certify that the dissertation entitled "EXISTENTIALISM IN ANITA DESAI'S *FIRE ON THE MOUNTAIN*", submitted to the Periyar University, partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by Miss **V. KAYALVIZHI** during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

HOD

  
HOD OF ENGLISH

ARIGNAR ANNA GOVT. ARTS COLLEGE  
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SUPERVISOR

  
EXTERNAL EXAMINER

P. THIRUNAVUKKARASU M.A.,M.Phil.,  
Asst. Prof of English  
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# CERTIFICATE

This is to certify that the dissertation entitled "THEME OF HUMAN RELATIONS IN JOHN STEINBECK'S *OF MICE AND MEN*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by Ms. A. KIRUPALINI during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

HOD

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HOD OF ENGLISH

ARIGNAR ANNA GOVT. ARTS CO  
NAMAKKAL - 637002

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SUPERVISOR

Dr. K. RAMACHANDRAN

Assistant Prof. of English

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EXTERNAL EXAMNIER

P. THIRUNAVUKKARASU M.A.,M.Phil.,

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Arts & Science College,

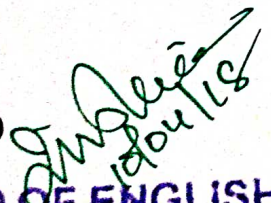
Namakkal (Dt.)



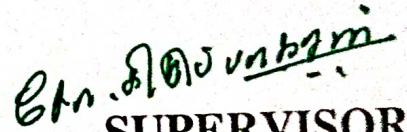
## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY OF GENETICALLY ENGINEERED HYBRID ANIMALS IN MARGARET ATWOOD'S *ORYX AND CRAKE*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by Ms. P. MALATHI during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

HOD

  
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## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY OF ELEMENT OF HISTORICISM IN KUSHWANT SINGH'S *TRAIN TO PAKISTAN*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Ms. T. NITHYAJOTHI** during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any **DEGREE/ Diploma/ Associate ship/ Fellowship** or other similar title to any candidate of any university.

HOD

*T. Nithya Jothi*  
09/10/18  
HOD OF ENGLISH

ARIGNAR ANNA GOVT. ARTS COLLEGE  
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*T. Nithya Jothi*  
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SUPERVISOR

*P. Thirunavukkarasu*  
EXTERNAL EXAMINER

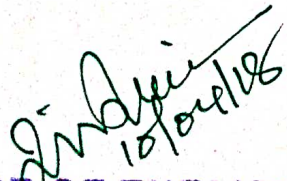
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## CERTIFICATE

This is to certify that the dissertation entitled "AN IMPERIALISTIC STUDY OF AMITAV GHOSH'S *THE GLASS PALACE*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by Ms. R. SANGEETHA during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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# CERTIFICATE

This is to certify that the dissertation entitled "A STUDY OF LOSS OF CIVILIZATION IN WILLIAM GOLDING'S *LORD OF THE FLIES*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Ms. G. SRIVIDHYA** during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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SUPERVISOR

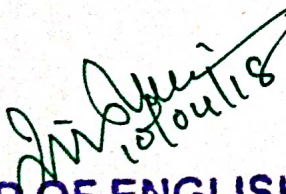
EXTERNAL EXAMINER

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Mohanur, Namakkal (Dt.)

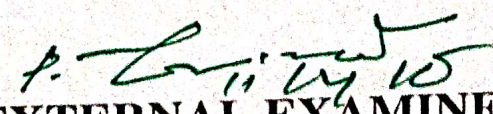


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This is to certify that the dissertation entitled "A STUDY OF SPIRITUALISM IN HERMANN HESSE'S *SIDDHARTHA*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of MASTER OF ARTS IN ENGLISH is a record of original research work done by Ms. M. SUMATHI during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

  
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## CERTIFICATE

This is to certify that the dissertation entitled "POLITICS AND RELIGION IN ROHINTON MISTRY'S *SUCH A LONG JOURNEY*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of MASTER OF ARTS IN ENGLISH is a record of original research work done by Ms. S. VASANTHI during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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*S. Vasanthi*  
27/04/18  
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*P. Thirunavukkarasu*  
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## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON EXPLOITATION OF WOMEN IN GIRISH KARNAD'S *NAGA-MANDALA*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Ms. P. VANESWARI** during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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Mohanur, Namakkal (Dt.)



# CERTIFICATE

This is to certify that the dissertation entitled "PORTRAYAL OF DISTRUST AND LOVE IN JOHN OSBORNE'S *LOOK BACK IN ANGER*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of MASTER OF ARTS IN ENGLISH is a record of original research work done by Ms. S. VINITHA during the period 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

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EXTERNAL EXAMINER

P. THIRUNAVUKKARASU M.A., M.Phil.,  
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Suoramaniam Arts & Science College,  
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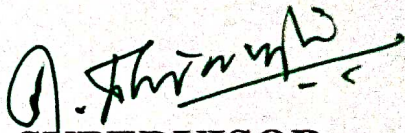


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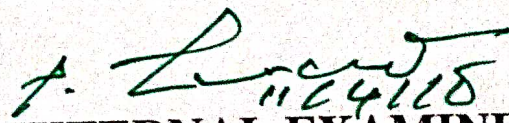
This is to certify that the dissertation entitled "IMMIGRANTS AND THE PERSPECTIVE OF FAMILIAL RELATIONSHIPS IN JHUMPA LAHIRI'S *UNACCUSTOMED EARTH*", submitted to the Periyar University, in partial fulfilment of the requirements for the award of the degree of **MASTER OF ARTS IN ENGLISH** is a record of original research work done by **Miss. M. INTHIRANI** during the period of 2016-2018 of her study under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree/ Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any university.

  
**HOD OF ENGLISH**

**ARIGNAR ANNA GOVT. ARTS COLLEGE  
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**SUPERVISOR**

**Dr. K. RAMACHANDRAN  
Assistant Prof. of English  
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**EXTERNAL EXAMINER**

**P. THIRUNAVUKKARASU M.A., M.Phil.,  
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Sri Perumal Arts & Science College,  
Manur, Namakkal (Dt.)**



## CERTIFICATE

I, Dr.M.MADHAVAN M.A.,M.Phil.,Ph.D hereby declare that the Project work entitled, "A STUDY ON PERCEPTION OF FMCG SELLERS ON GST WITH SPECIAL REFERENCE TO RETAILERS IN NAMAKKAL TOWN" is the bonofide research work carried out by A.AMARESAN (Reg. No. 16PEC1001) and submitted to the department of Economics, Aringnar Anna Government Arts College, Namakkal in partial fulfillment of the requirements for the award of the Degree of MASTER OF ARTS in Economics during the period form 2017-2018 under my guidance and this work has not formed the basis for the award of any degree, diploma, associateship, fellowship, or titles in this or any other University or other similar institutions of higher learning.

*Len. G. Senthil*  
Head of the Department  
குறைந்த தலைவர்,  
முதுகலை & பொருளியல் ஆய்வுத்துறை,  
அறிஞர் அண்ணா அரசு கலைக் கல்லூரி,  
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*J. Senthil*  
External Examiner

*27/03/2018*  
Signature of the Guide  
Dr. M. MADHAVAN, M.A., M.Phil., Ph.D.  
Assistant Prof. of Economics  
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Namakkal - 637 002.

*Reelap/np/han*  
Principal  
PRINCIPAL  
Aringnar Anna Government  
Arts College  
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## CERTIFICATE


I, Dr. T. MARICHAMY, MA, M.Phil, B.Ed., PGDCA, Ph.D., hereby declare that the Project work entitled, "AN ECONOMIC STUDY OF INFLUNCING FACTORS TO SELECT MOBILE PHONES AMONG COLLEGE STUDENTS IN NAMAKKAL DISTRICT" is the bonofide research work carried out by R.KARTHIK (Reg.No. 16PEC1002) and submitted to the department of Economics, Arignar Anna Government Arts College, Namakkal in partial fulfillment of the requirements for the award of the Degree of **MASTER OF ARTS** in Economics during the period form 2017 - 2018 under my guidance and this work has not formed the basis for the award of any degree, diploma, accoicateship, fellowship, or titles in this or any other University or other similar institutions of higher learning.



Signature of the Guide

  
Head of the Department  
குறைத் தலைவர்,  
முதுகலை & பொருளியல் ஆய்வுத்துறை,  
அறிஞர் அண்ணா அரசு கலைக் கல்லூரி,  
நாமக்கல் - 637 002.

  
Principal  
PRINCIPAL  
Arignar Anna Government  
Arts College  
Namakkal-637 001.

  
External Examiner




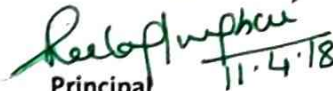
Dr.M.KUMARAVELU. M.A., M.Phil., Ph.D.,  
Associate Professor & Head  
PG & Research Department of Economics  
Arignar Anna Govt. Arts College  
Namakkal -636 002.

## CERTIFICATE

This is to certify that the project entitled "A STUDY ON CONSUMER BEHAVIOUR ON ONLINE PRODUCT MARKETING IN NAMAKKAL DISTRICT ", submitted to Arignar Anna Govt. Arts College, Namakkal in partial fulfillment of the requirements for the award of Master of Arts Degree in Economics, is a record of bonafide research work carried out by S.MOORTHY under my supervision and guidance and that no part of the project has previously formed part of any project or publication for the award of any other degree, diploma, fellowship of similar titles.

  
Head of the Department  
குறைந் தலைவர் 4/4/18  
முதுகலை & பொருளியல் ஆய்வுத்துறை,  
அறிஞர் அண்ணா அரசு கலைக் கல்லூரி,  
நாமக்கல் - 637 002.

  
Supervisor 11/4/18.  
Dr.M. Kumaravelu, M.A., M.Phil., Ph.D.,  
Associate Professor in Economics, Head  
Arignar Anna Govt. Arts College,  
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Principal 11.4.18  
PRINCIPAL  
Arignar Anna Government  
Arts College  
Namakkal-637 001.

  
External Examiner 11/4.



Dr.M.KUMARAVELU. M.A., M.Phil., Ph.D.,  
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PG & Research Department of Economics  
Arignar Anna Govt. Arts College  
Namakkal -636 002.

## CERTIFICATE

This is to certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION ON HEALTH DRINKS WITH REFERNCE TO HORLICKS IN NAMAKKAL DISTRICT", submitted to Arignar Anna Govt. Arts College, Namakkal in partial fulfillment of the requirements for the award of MASTER OF ARTS Degree in Economics, is a record of bonafide research work carried out by M.MUTHUSAMY, under my supervision and guidance and that no part of the project has previously formed part of any project or publication for the award of any other degree, diploma, fellowship of similar titles.

*Dr. M. Kumaravelu*  
Head of the Department  
குறைத் தலைவர்,  
முதுகலை & பொருளியல் ஆய்வுத்துறை,  
அறிஞர் அண்ணா அரசு கலைக் கல்லூரி,  
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*Dr. M. Kumaravelu*  
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*Rethpharai*  
Principal  
PRINCIPAL  
Arignar Anna Government  
Arts College  
Namakkal-637 001.

*Samir*  
External Examiner



## CERTIFICATE


I, Dr. A.SAKTHIVEL, M.A, M.Phil, Ph.D, hereby certify that the Project work entitled, "A STUDY ON MARKETING PROBLEMS FACED BY FARMERS WITH SPECIAL REFERENCE TO DRY LAND CROPS IN ELACHIPALAYAM UNION, NAMAKKAL DISTRICT." is the bonafide research work carried out by G.SILAMBARASAN (Reg. no.16PEC1006) and submitted to the department of Economics, Aringnar Anna Government Arts college, Namakkal in partial fulfillment of the requirements for the award of the Degree of MASTER OF ARTS IN ECONOMICS during the period form 2017 - 2018 under my guidance and this work has not formed the basis for the award of any degree, diploma, associate ship, fellowship, or titles in this or any other University or other similar institutions of higher learning.

Place: Namakkal

  
Signature of the Guide

Date:

  
Head of the Department  
முதுகலை & பொருளியல் ஆய்வுத்துறை,  
அறிஞர் அண்ணா அரசு கலைக் கல்லூரி,  
நாமக்கல் - 637 002.

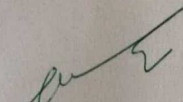
  
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PRINCIPAL  
Aringnar Anna Government  
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Namakkal-637 001.

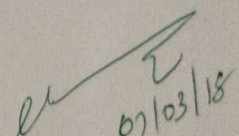
  
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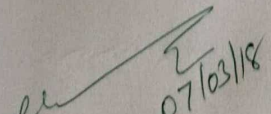
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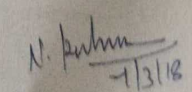
This is to certify that the project entitled submitted "**A STUDY ON BRAND PREFERENCE OF MOBILE PHONES IN NAMAKKAL TOWN**" is a record of bonafide research work carried out by **Mr.R.Balaji** Register No **15UBA1354** under my supervision and guidance during the academic year 2017 – 2018 in partial fulfillment of the requirements for the award of the Degree of **Bachelor of Business Administration** and the work in an original one and has not formed basis for the award of any other Degree, Diploma, Associateship, Fellowship of similar titles.

  
(Guide Signature)

  
(HOD Signature)

Project Work Evaluation Viva –Voce Examination Conducted on 07/03/18 by

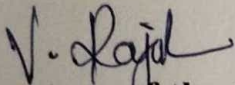
  
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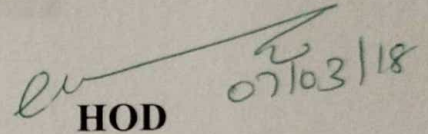


## CERTIFICATE

This is certify that the project entitled "A STUDY ON PUBLIC AWARENESS TOWARDS HELMET WITH REFERENCE TO NAMAKKAL CITY" is a bonafide work carried out by T.KANGAMUTHU ,(Reg. No: 15UBA1357) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.



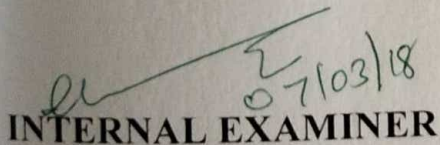
Signature of the Guide



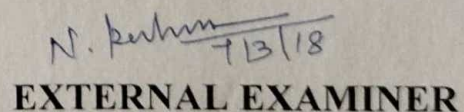
HOD 07/03/18

Signature

Project Work evaluation viva voce examination held on 07.03.2018



INTERNAL EXAMINER 07/03/18

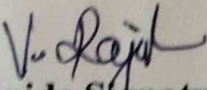


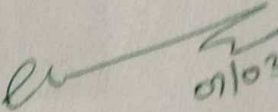
EXTERNAL EXAMINER N. Kuthum 7/3/18



## CERTIFICATE


This is certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS ADYAR ANANDA BHAVANHOTEL WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" is a bonafide work carried out by A.MANIKANDAN,(Reg. No: 15UBA1360) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

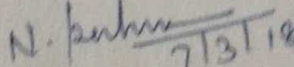
  
Guide Signature

  
07/03/18  
HOD Signature

Project Work evaluation viva voce examination held on 07.03.2018

DECLARATION

  
07/03/18  
INTERNAL EXAMINER

  
7/3/18  
EXTERNAL EXAMINER



## CERTIFICATE

This is certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS SONY LED TV WITH SPECIAL REFERENCE TO TIRUCHENGODE TOWN" is a bonafide work carried out by N.PARTHIBAN,(Reg. No: 15UBA1364) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

*V. Raju*  
Signature of the Guide

*[Signature]* 07/03/18  
HOD Signature

Project Work evaluation viva voce examination held on 07/03/2018

## DECLARATION

*[Signature]* 07/03/18  
INTERNAL EXAMINER

*N. Parthiban* 07/3/18  
EXTERNAL EXAMINER

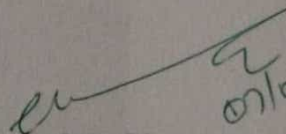


## CERTIFICATE

This is certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION WITH SPECIAL REFERENCE TO ARRS SILKS NAMAKKAL" is a bonafide work carried out by D.PRITHIVRAJ, (Reg. No: 15UBA1366) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the award of the Degree of Bachelor Business Administration and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

V. Rajal

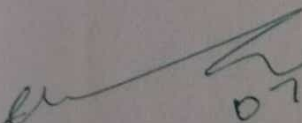
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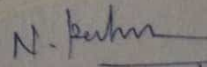
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Project Work evaluation viva voce examination held on 07 03 2018

DECLARATION

  
07/03/18

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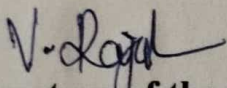
  
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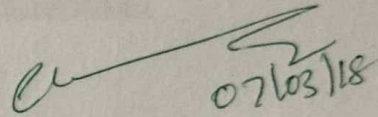


## CERTIFICATE

This is certify that the project entitled "A STUDY ON CUSTOMERS OPINION REGARDING THE INFONET IN NAMAKKAL TOWN "is a bonafide work carried out by **M. PUTHARAKARALMARKS**, (Reg. No: 15UBA1367) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

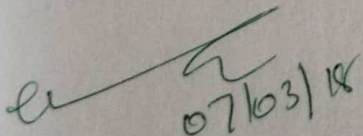


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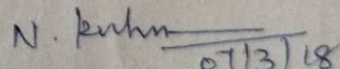


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**Project Work evaluation viva voce examination held on 07-03-2018**



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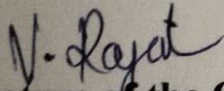


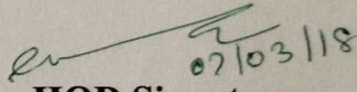
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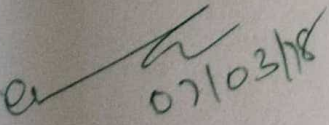
## CERTIFICATE

This is certify that the project entitled "A STUDY ON PUBLIC PREFERENCE ON THE AVAILABILITY OF BUS SERVICE WITH SPECIAL REFERNCE TO NAMAKKAL TOWN" is a bonafide work carried out by R.RANJITHKUMAR,(Reg. No: 15UBA1370) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
Signature of the Guide

  
HOD Signature

Project Work evaluation viva voce examination held on 7.3.2018.

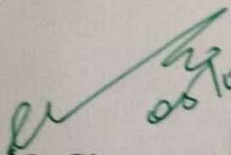
  
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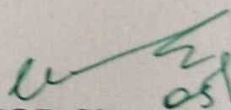
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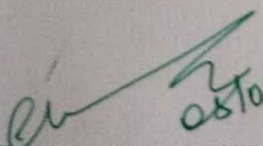
This to certify that the report entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS FOGG PERFUME WITH REFERENCE TO NAMAKKAL TOWN" " is a bonafide work carried out by S.RANJITHKUMAR (Reg. No: 15UBA1371) under my supervision and guidance during the academic year 2018-2019 in the partial fulfilment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title

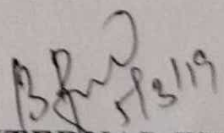
  
25/03/19  
**Guide Signature**

  
25/03/19  
**HOD Signature**

Project Work evaluation viva examination Held on

05-03-2019

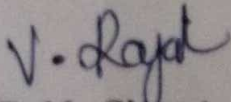
  
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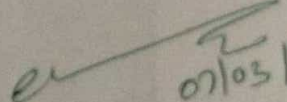
  
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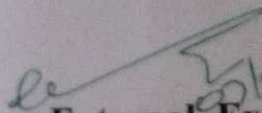
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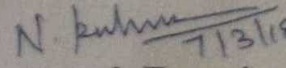
This is to certify that the project entitled "A STUDY ON CONSUMER PREFERENCE OF HEALTH DRINKS IN NAMAKKAL TOWN" is a bonafide work carried out by S.SUBASH.Register No. 15UBA1374 under my Supervision and guidance during the academic year 2017-2018 in partial fulfillment of the requirements for the Award of the Degree of Bachelor of Business Administration and the work is an original one and has not formed basis for the award of any degree, diploma, associateship, fellowship or any other similar title.

  
Guide Signature

  
07/03/18  
HOD Signature

Project Work evaluation Viva- Voce examination held on 07/03/18


  
07/03/18  
External Examiner


  
7/3/18  
Internal Examiner



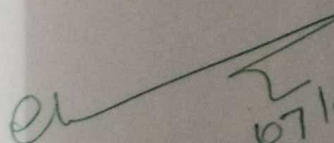
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This is certify that the project entitled "A STUDY ON PUBLIC EXPECTATION TOWARDS PATANJALI BRAND WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" is a bonafide work carried out by S.SUBASH,(Reg. No: 15UBA1375) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the award of the Degree of Bachelor Business Administration and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
07/03/18  
Guide Signature

  
07/03/18  
HOD Signature

Project Work evaluation viva voce examination held on 07.03.2018

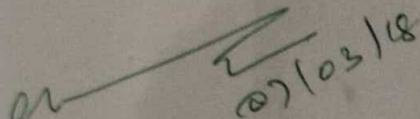
  
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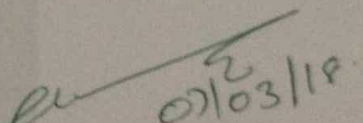
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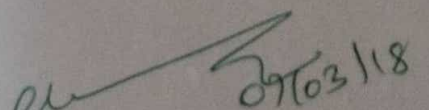
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Signature of the Guide

  
HOD Signature

Project Work evaluation viva voce examination held on 07.03.2018

## DECLARATION

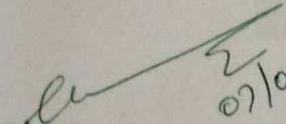
  
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EXTERNAL EXAMINER




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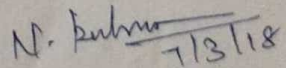
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07/03/18  
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07/03/18  
**HOD Signature**

Project Work evaluation viva voce examination held on 07.03.2018

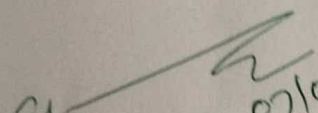
  
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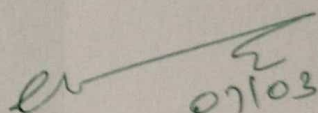
  
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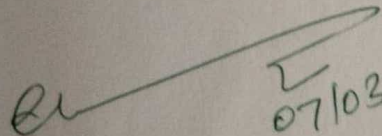
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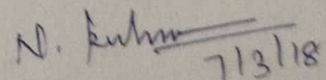
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Signature of the Guide

  
HOD Signature

Project Work evaluation viva voce examination held on 07-03-2018

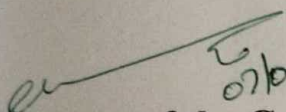
  
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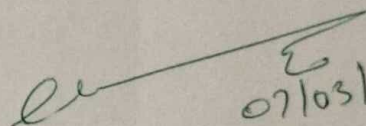
  
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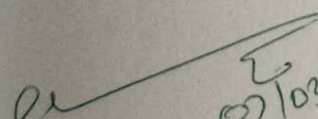
## CERTIFICATE

This is certify that the project entitled "A STUDY ON EMPLOYEE JOB SATISFACTION TOWARDS KKP SPINNING MILLS PRIVATE LIMITED AT NAMAKKAL" is a bonafide work carried out by G.VINOTH ,(Reg. No:15UBA1381) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
07/03/18  
**Signature of the Guide**

  
07/03/18  
**HOD Signature**

Project Work evaluation viva voce examination held on 07/03/2018

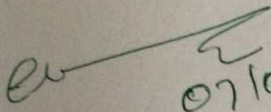
  
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**INTERNAL EXAMINER**

N. Puthum  
7/3/18  
**EXTERNAL EXAMINER**




## CERTIFICATE

This is certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION TOWARDS PROFESSIONAL COURIER WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" is a bonafide work carried out by S.VIVINKUMAR, (Reg. No: 15UBA1382) under my supervision and guidance during the academic year 2017 - 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

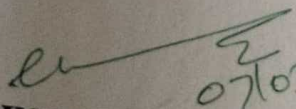
  
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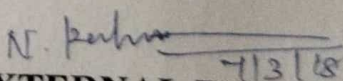
  
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**HOD Signature**

Project Work evaluation viva voce examination held on 207.03.2018

  
07/03/18

**INTERNAL EXAMINER**


  
N. perum  
7/3/18

**EXTERNAL EXAMINER**




## CERTIFICATE

This is certify that the project entitled "A STUDY ON READERS PERCEPTION TOWARDS HINDU NEWS PAPER WITH SPECIAL REFERENCE TO NAMAKKAL DISTRICT" is a bonafide work carried out by C.YOGANADHAN,(Reg. No: 15UBA1383) under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.



07/03/18

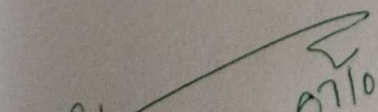
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**HOD Signature**

**Project Work evaluation viva voce examination held on** 07/03/2018



07/03/18

**INTERNAL EXAMINER**

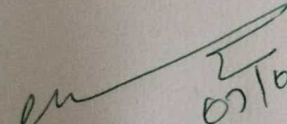
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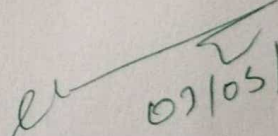
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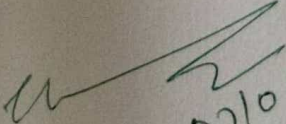
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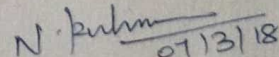
This is to certify that the project entitled submitted "A STUDY ON CUSTOMER OPINION TOWARDS ONLINE SHOPPING OF ELECTRONIC GOODS IN NAMAKKAL TOWN" is a record of bonafide research work carried out by M/s.R.Gomathi Register No 15UBA1384 under my supervision and guidance during the academic year 2017 – 2018 in partial fulfillment of the requirements for the award of the Degree of **Bachelor of Business Administration** and the work in an original one and has not formed basis for the award of any other Degree, Diploma, Associateship, Fellowship of similar titles.

  
07/03/18  
(Guide Signature)

  
07/05/18  
(HOD Signature)

Project Work Evaluation Viva –Voce Examination Conducted on 07.03.2018 by


  
07/03/18  
Internal Examiner

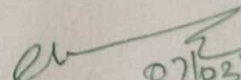
  
07/3/18  
External Examiner



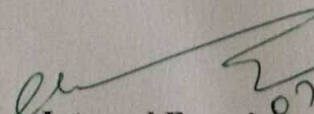
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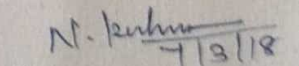
This is to certify that the project entitled submitted "**A STUDY ON COSUMER BEHAVIOUR TOWARDS AACHI MASALA IN NAMAKKAL TOWN**" is a record of bonafide research work carried out by **M.SARASWATHI** Register No **15UBA1387** under my supervision and guidance during the academic year 2017 – 2018 in partial fulfillment of the requirements for the award of the Degree of **Bachelor of Business Administration** and the work in an original one and has not formed basis for the award of any other Degree Diploma, Associateship, Fellowship of similar titles.

  
07/03/18  
(Guide Signature)

  
07/03/18  
(HOD Signature)

Project Work Evaluation Viva –Voce Examination Conducted on 07.13/2018 by

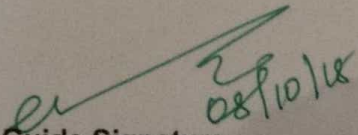
  
07/03/18  
Internal Examiner

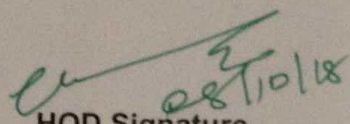
  
N. Kishore  
7/13/18  
External Examiner



## CERTIFICATE

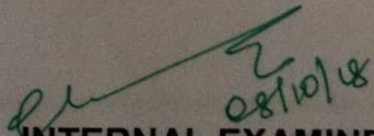
This is certify that the project entitled " A STUDY ON THE PROBLEMS FACED BY THE TEXTILE UNITS IN SIPCOT PERUNDURAI" is a bonafide work carried out by **A. SOWNTHARYA,(Reg.No.15UBA1388)** under my supervision and guidance during the academic year 2017 – 2018 in the partial fulfillment of the requirements for the **award of the Degree of Bachelor Business Administration** and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

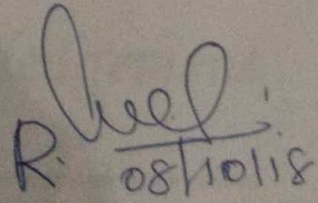
  
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HOD Signature

Project Work evaluation viva voce examination held on

08/10/18

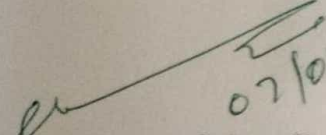
  
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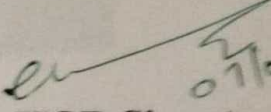
  
EXTERNAL EXAMINER



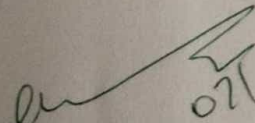
## CERTIFICATE

This is certify that the project entitled "A STUDY ON CUSTOMER PREFERENCE TOWARDS DOVE PRODUCTS WITH SPECIAL REFERENCE TO NAMAKKAL TOWN" is a bonafide work carried out by S. GANGADARAN ,(Reg. No: 14UBA1502) under my supervision and guidance during the academic year 2017 - 2018 in the partial fulfillment of the requirements for the award of the Degree of Bachelor Business Administration and the work is an original one and has not formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar title.

  
07/03/18  
**Signature of the Guide**

  
07/03/18  
**HOD Signature**

Project Work evaluation viva voce examination held on 07.03.2018

  
07/03/18  
**INTERNAL EXAMINER**

N. Kumar  
7/3/18  
**EXTERNAL EXAMINER**




## CERTIFICATE

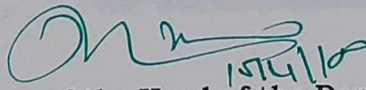
This is to certify that the project entitled  
"STUDIES OF FUZZY CONGRUENCE RELATION ON SEMIGROUP"  
submitted in partial fulfillment of the requirement for the award  
of the Degree of Master of Science in **MATHEMATICS (Under Choice  
Based Credit System)** the Periyar University, Salem -11 is a bonafide  
project work carried out by **S.AJITH., Reg.No. 16PMA1176.**, under  
my supervision and guidance and that no part of the project has been  
submitted for the award of any Degree/Diploma/Associateship/  
Fellowship or other similar title so far.

Date: 10.04.18

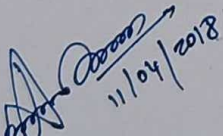
Place: Namakkal

  
Signature of the  
Guide/Supervisor

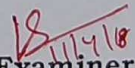
Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT.ARTS COLLEGE  
NAMAKKAL - 637 002

  
Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT.ARTS COLLEGE  
NAMAKKAL - 637 002

  
External Examiner

S. RAMADEVII,  
HOD / MATHS / VKAL

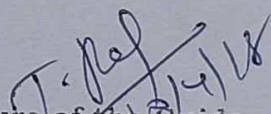



## CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON DIRECTED GRAPHS OF COMMUTATIVE RINGS" 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 -11 is a record of bonafide research work carried out by **R.CHINNATHAMBI, [Reg. No. 16PMA1177], Arignar Anna Government Arts College, Namakkal** 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 : 10.4.18


Place : Namakkal

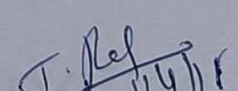
  
Signature of the Guide

  
Signature of the Head of the Department

Dr.V. GANESAN, M.Sc.,M.Phil.,B.Ed.,PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

External Examiner

  
S. RAMA DEVI,  
HOD/MATHS/VKAS

  
Internal Examiner

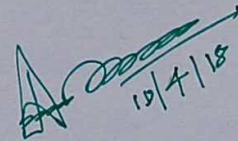


## CERTIFICATE

This is to certify that the project entitled "PERFECT GRAPH" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** the Periyar University, Salem -11 is a bonafide project work carried out by **S.ILAVARASAN, Reg. No. 16PMA1178.**, under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

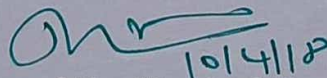
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Place: NAMAKKAL



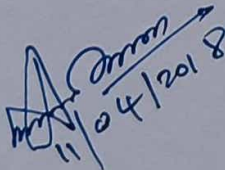
Signature of the  
Guide/Supervisor

**Dr. P. SUNDARARAJAN, Ph.D.,**  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT.ARTS COLLEGE  
NAMAKKAL - 637 002



Signature of the Head of the Department

**Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,**  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner

**Dr. P. SUNDARARAJAN, Ph.D.,**  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT.ARTS COLLEGE  
NAMAKKAL - 637 002

  
External Examiner

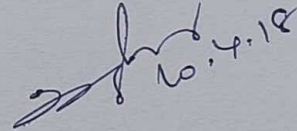
**S. RAMA DEVI**  
HOD | MATHS | VKAS



## CERTIFICATE

This is to certify that the project entitled "A STUDY ON DOMINATION GRAPH" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS** to the Periyar University, Salem -11 is a bonafide project work carried out by **M.IYYAMPERUMAL.,** (Reg. No. **16PMA1179**), under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/Fellowship or other similar title so far.

Date: 10-04-2018  
Place: Namakkal.

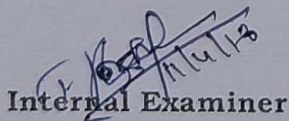


Signature of the  
**DR. T.J. RAGHUPATHI**  
Assistant Professor of Mathematics,  
Arignar Anna Govt. Arts College,  
Namakkal-637 002.



Signature of the Head of the Department

**Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,**  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner



External Examiner

**S. RAMADEVI**  
HOD | MATHS | VKAS




## CERTIFICATE

This is to certify that the project entitled "SPECTRAL THEORY IN FUNCTIONAL ANALYSIS" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** the Periyar University, Salem -11 is a bonafide project work carried out by **R.JAYAKUMAR, Reg. No. 16PMA1180.**, under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/Fellowship or other similar title so far.

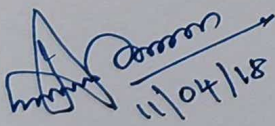
Date: 10-4-2018

Place: Namakkal

  
Signature of the  
Guide/Supervisor

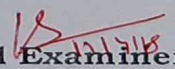
  
Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
11/04/18

Internal Examiner

Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002

  
External Examiner


S. RAMADEVI  
HOD) Maths / VKAS

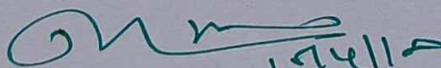


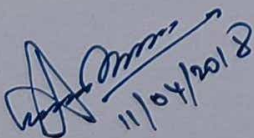
## CERTIFICATE

This is to certify that the project entitled "THE THEORY OF P-GROUPS" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** the Periyar University, Salem -11 is a bonafide project work carried out by **G.MAHENDRAN, Reg. No. 16PMA1181.**, under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

Date: 10.04.2018  
Place: Namakkal


  
Signature of the  
Guide/Supervisor

  
Signature of the Head of the Department  
Dr.V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
11/04/2018

Internal Examiner

**Dr. P. SUNDARARAJAN, Ph.D.,**  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002

  
External Examiner  
S. RAMADEVI,  
HOD / Maths / VKAS

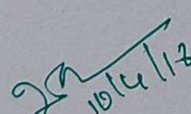


## CERTIFICATE

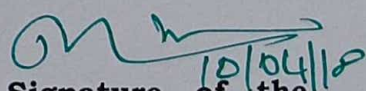
This is to certify that the project entitled  
**"A STUDY ON SQUARE DIFFERENCE LABELING FOR SOME  
GRAPHS"** submitted in partial fulfillment of the requirement for  
the award of the degree of **MASTER OF SCIENCE IN  
MATHEMATICS** to the Periyar University, Salem -11 is a bonafide  
project work carried out by **R.MANIKANDAN, Reg. No.  
16PMA1183** under my supervision and guidance and that no part of  
the project has been submitted for the award of any Degree  
/Diploma /Associateship / Fellowship or other similar title so  
far.

**Place : Namakkal**

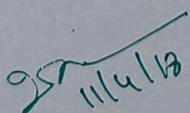
**Date : 10.04.2018**

  
**Signature of the**

**Guide / Supervisor**  
**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.

  
**Signature of the**

**Head of the Department**  
**Dr.V. GANESAN, M.Sc.,M.Phil.,B.Ed.,PGDCA, Ph.D.,**  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
**Internal Examiner**  
**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.

  
**External Examiner**

**S.RAMA DEVI**  
**HOD/MATHS/VIKAS**

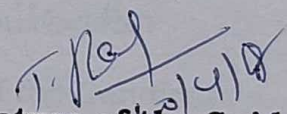



## CERTIFICATE

This is to certify that the dissertation entitled " A STUDY ON CONNECTEDNESS IN IDEAL 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 -11 is a record of bonafide research work carried out by **T. MANIKANDAN, [Reg. No. 16PMA1184], Arignar Anna Government Arts College, Namakkal** 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.

**Place :** Namakkal

**Date :** 10/04/18

  
**Signature of the Guide**

  
**Signature of the Head of the Department**

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
**External Examiner**

  
**Internal Examiner**

**S. RAMADEVI,**  
**HOD / Maths / VKAS**

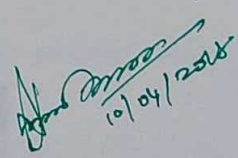


## CERTIFICATE


This is to certify that the project entitled "STUDIES ON GENERALIZED  $b^*$  CLOSED SETS IN TOPOLOGICAL SPACES" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** the Periyar University, Salem - 11 is a bonafide project work carried out by **P.MANOJ KUMAR, Reg. No. 16PMA1185** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

Date: 10-04-2018.

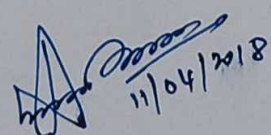
Place: NAMAKKAL.

  
Signature of the  
Guide/Supervisor

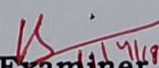
**Dr. P. SUNDARARAJAN, Ph.D.,**  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002

  
Signature of the Head of the Department

**Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,**  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

**Dr. P. SUNDARARAJAN, Ph.D.,**  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002

  
External Examiner

**S. RAMADEVI**

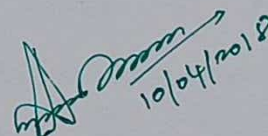
**HOD/ MATHS/ VKAS**



# CERTIFICATE

This is to certify that the project entitled "CONTRIBUTION TO THE THEORY OF IRREDUCIBLE IDEALS IN SUBTRACTION ALGEBRA" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in MATHEMATICS (Under Choice Based Credit System) the Periyar University, Salem -11 is a bonafide project work carried out by P.MARUDU PANDIYAN, Reg. No. 16PMA1186., under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/Fellowship or other similar title so far.

Date: 10/04/18  
Place: Namakkal



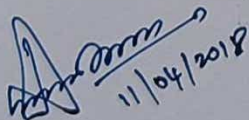
Signature of the  
Guide/Supervisor

Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002



Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner

Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002



External Examiner

S. RAMADEVI  
HOD | MATHS | VKAS

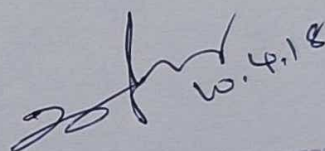


## CERTIFICATE

This is to certify that the project entitled "APPLICATION OF LINEAR PROGRAMMING IN MARKETING AND FINANCE" submitted in partial fulfilment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS** to the Periyar University, Salem -11 is a bonafide project work carried out by **P.OMSARAVANAN., (Reg. No. 16PMA1187).**, under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/Fellowship or other similar title so far.

Date: 10-4-18

Place: Namakkal.

  
10.4.18

Signature of the

Dr. T. J. ...  
Assistant Professor of Mathematics,  
Arignar Anna Govt. Arts College,  
Namakkal-637 002.

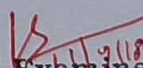
Guide/Supervisor

  
15/4/18

Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
11/4/18  
Internal Examiner

  
11/4/18  
External Examiner

S. RAMADEVI

HOD/MATHS/VKAS

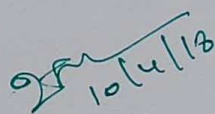


## CERTIFICATE

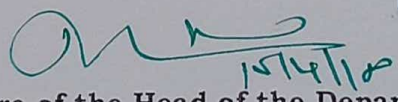
This is to certify that the project entitled  
**"A STUDY ON FIBONACCI SEQUENCE AND ITS PROPERTIES"**  
submitted in partial fulfillment of the requirement for the award  
of the Degree of Master of Science in **MATHEMATICS (Under Choice  
Based Credit System)** the Periyar University, Salem -11 is a bonafide  
project work carried out by **S.PADMANABAN, Reg. No. 16PMA1188**  
under my supervision and guidance and that no part of the project  
has been submitted for the award of any  
Degree/Diploma/Associateship/ Fellowship or other similar title so  
far.

Date: 10.04.2018


Place: NAMAKKAL

  
Signature of the  
Guide/Supervisor

**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA, Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.

  
Signature of the Head of the Department

**Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,**  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA, Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.

  
External Examiner

**S. RAMADEVI,**  
HOD / MATHEMATICS

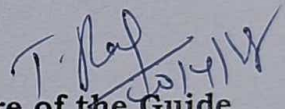


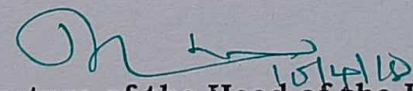
## CERTIFICATE

This is to certify that the dissertation entitled " A STUDY ON COMPLEMENT OF A FUZZY GRAPH " 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 -11 is a record of bonafide research work carried out by **M.POOVARASAN, [Reg. No. 16PMA1189], Arignar Anna Government Arts College, Namakkal** 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.

**Place :** Namakkal

**Date :** 10/04/18

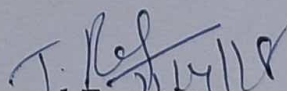
  
**Signature of the Guide**

  
**Signature of the Head of the Department**



**External Examiner**

S. RAMADEVI,  
HOD / MATHS / VKAS

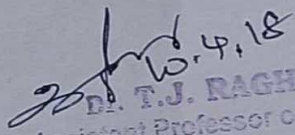
  
**Internal Examiner**




## CERTIFICATE

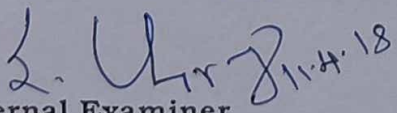
This is to certify that the project entitled "AN INVENTORY MODEL FOR TIME VARYING HOLDING COST" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in MATHEMATICS to the Periyar University, Salem -11 is a bonafide project work carried out by **A.PRASATH.,** (Reg.No.16PMA1191), under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

Date: 10.4.18  
Place: NAMAKKAL

  
D. T.J. RAGHUPATHI  
Assistant Professor of Mathematics,  
Arignar Anna Govt. Arts College,  
Namakkal-637 002.  
Signature of the  
Guide/Supervisor

  
Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

  
External Examiner

S. RAMADEVI  
HOD | MATHS | VKAS

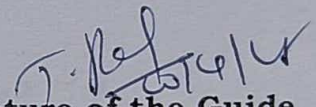


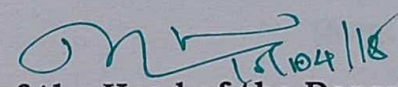
## CERTIFICATE

This is to certify that the dissertation entitled " A STUDY ON EVEN VERTEX MAGIC TOTAL LABELING " 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 -11 is a record of bonafide research work carried out by **G.BHUVANESHWARI, [Reg. No. 16PMA1192], Arignar Anna Government Arts College, Namakkal** 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.

Place : Namakkal

Date : 10/04/2018

  
Signature of the Guide

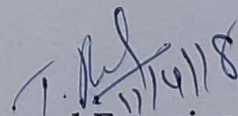
  
Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

External Examiner

S. RAMADEVI

HOD | MATHS | VKAS

  
Internal Examiner

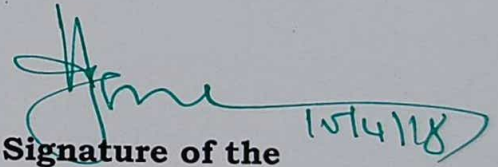


## CERTIFICATE

This is to certify that the project entitled  
**"EXISTENCE AND UNIQUENESS SOLUTION OF DELAY  
DIFFERENTIAL EQUATIONS"** submitted in partial fulfillment of  
the requirement for the award of the Degree of Master of Science in  
**MATHEMATICS (Under Choice Based Credit System)** the Periyar  
University, Salem -11 is a bonafide project work carried out by  
**S. BHUVANESWARI, Reg. No. 16PMA1193** under my supervision  
and guidance and that no part of the project has been submitted for  
the award of any Degree/Diploma/Associateship/ Fellowship or other  
similar title so far.

Date: 10.04.18

Place: Namakkal



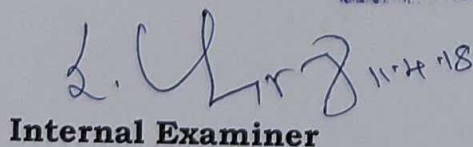
Signature of the  
Guide/Supervisor

## DECLARATION

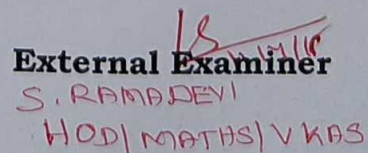


Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner



External Examiner

S. RAMADEVI  
HOD/ MATHS/ V KAS

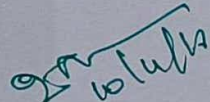


## CERTIFICATE


This is to certify that the project entitled  
**“A STUDY ON EQUIVALENCE RELATIONS AND DISTANCES  
BETWEEN HILBERT FRAMES”** submitted in partial fulfillment of  
the requirement for the award of the Degree of Master of Science in  
**MATHEMATICS (Under Choice Based Credit System)** the Periyar  
University, Salem -11 is a bonafide project work carried out by  
**G.DEEPA, Reg. No. 16PMA1194** under my supervision and guidance  
and that no part of the project has been submitted for the award of  
any Degree/Diploma/Associateship/ Fellowship or other similar title  
so far.

Date: 10/4/18

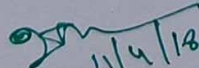
Place: Namakkal

  
Signature of the  
Guide/Supervisor

**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.

  
Signature of the Head of the Department

**Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,**  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

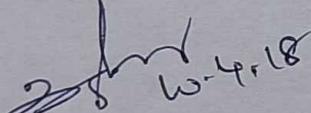
**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.

  
External Examiner

**S. RAMADEVI,**  
HODI MATHS / VRA

## CERTIFICATE

This is to certify that the project entitled "GRAPHOIDAL COVERING NUMBER OF A GAP THEORY" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS** the Periyar University, Salem is a record bonafide project work carried out by **R.GOWTHAMI (Reg. No. 16PMA1195)** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

  
Signature of the

**R. GOWTHAMI**  
Guide/Supervisor  
Assistant Professor of Mathematics,  
Arignar Anna Govt. Arts College,  
Namakkal-637 002.

  
Head of the Department

**Dr. V. GANESAN**, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

  
External Examiner

**S. RAMA DEVI**  
HOD | MATHS | VKAS

Place: Namakkal

Date: 10.4.18

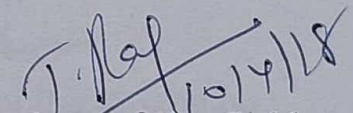



## CERTIFICATE

This is to certify that the dissertation entitled " **A STUDY ON PRIME LABELLING OF 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 -11 is a record of bonafide research work carried out by **K.JOTHIMANI, [Reg. No. 16PMA1196], Arignar Anna Government Arts College, Namakkal** 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.


**Place :** Namakkal

**Date :** 10/4/18

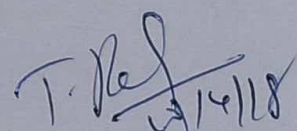
  
**Signature of the Guide**

  
**Signature of the Head of the Department**

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
**External Examiner**

S. RAMADEVI,  
HOD / MATHS / VKAS

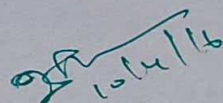
  
**Internal Examiner**

## CERTIFICATE

This is to certify that the project entitled  
**"A STUDY ON MAGIC STRENGTH OF LABELLINGS AND CYCLES"**  
submitted in partial fulfillment of the requirement for the award  
of the Degree of Master of Science in **MATHEMATICS (Under Choice  
Based Credit System)** the Periyar University, Salem -11 is a bonafide  
project work carried out by **N.KALAISELVI, Reg. No. 16PMA1197**  
under my supervision and guidance and that no part of the project  
has been submitted for the award of any  
Degree/Diploma/Associateship/ Fellowship or other similar title so  
far.

Date: 10.04.2018

Place: NAMAKKAL

  
Signature of the

Guide/Supervisor

**DR. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002, Tamilnadu.

  
Signature of the Head of the Department

**Dr.V. GANESAN,**  
M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

**Dr. V. SIVAKUMAR,**  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002, Tamilnadu.

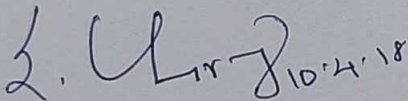
  
External Examiner

**S. RAMADEVI,**  
HOD / MATHS / VKAS



## CERTIFICATE

This is to certify that the project entitled **"SOME STUDY ABOUT FUZZY OPERATIONS IN MATRIX"** submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS** the Periyar University, Salem is a record bonafide project work carried out by **B.KALAIYARASI (Reg. No. 16PMA1198)** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

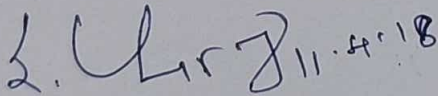
 10.4.18

**Signature of the  
Guide/Supervisor**

 10/4/18

**Head of the Department**

**Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,**  
Head, Department of Mathematics,  
Periyar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

 11.4.18

**Internal Examiner**

 18/4/18

**External Examiner**

**S. RAMA DEVI**  
HOD | maths | VKAS

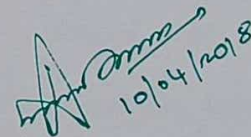
**Place:** Namakkal

**Date:** 10.04.2018

## CERTIFICATE

This is to certify that the project entitled  
"A NEW BRANCH OF LOGICAL ALGEBRA UP ALGEBRA" submitted  
in partial fulfillment of the requirement for the award of the  
Degree of Master of Science in **MATHEMATICS (Under Choice Based  
Credit System)** the Periyar University, Salem -11 is a bonafide  
project work carried out by **R.KAVITHA., Reg.No. 16PMA1199.,**  
under my supervision and guidance and that no part of the project  
has been submitted for the award of any  
Degree/Diploma/Associateship/ Fellowship or other similar title so  
far.

Date: 10.04.2014  
Place: NAMAKKAL



10/04/2014

Signature of the  
Guide/Supervisor

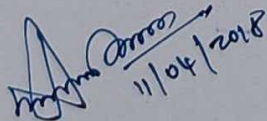
Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002



10/04/14

Signature of the Head of the Department

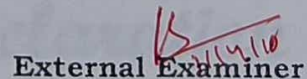
Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



11/04/2014

Internal Examiner

Dr. P. SUNDARARAJAN, Ph.D.,  
Asst. Professor, PG and Research  
Department of Mathematics  
ARIGNAR ANNA GOVT. ARTS COLLEGE  
NAMAKKAL - 637 002



15/04/14

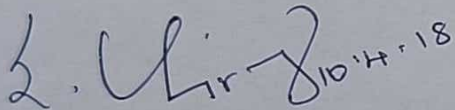
External Examiner

S. RAMADEVI,  
HOD / MATHS / KAS

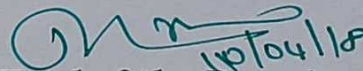


## CERTIFICATE

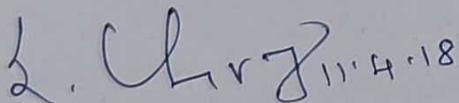
This is to certify that the project entitled "SOME STUDY ABOUT DIRECTED GRAPH" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS** the Periyar University, Salem is a record bonafide project work carried out by **K.MALATHI (Reg. No. 16PMA1200)** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.



**Signature of the  
Guide/Supervisor**



**Head of the Department**  
Dr.V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



**Internal Examiner**

  
**External Examiner**

**S. RAMADEVI,  
HOD / MATHS / VKAS**

**Place:** Namakkal

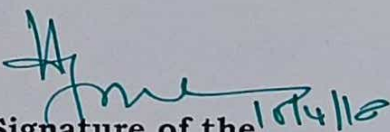
**Date:** 10.04.2018


## CERTIFICATE

This is to certify that the project entitled **“SOME NEW SETS AND TOPOLOGIES IN IDEAL TOPOLOGICAL SPACES”** submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** the Periyar University, Salem – 11 is a bonafide project work carried out by **K.SARANYA, Reg. No. 16PMA1201** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

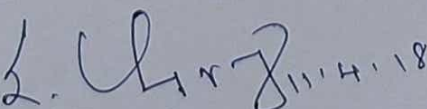
Date: 10.4.18


Place: Namakkal

  
Signature of the  
Guide/Supervisor

  
Signature of the Head of the Department

Dr.V. GANESAN, M.Sc.,M.Phil.,B.Ed.,PGDCA, Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

  
Internal Examiner

  
External Examiner

S. RAMADEVI  
HOD | MATHS | VKAS

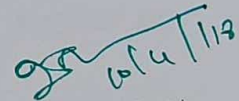


## CERTIFICATE

This is to certify that the project entitled "A STUDY ON FUZZY NUMBERS AND FUZZY ARITHMETICS" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in MATHEMATICS (Under Choice Based Credit System) the Periyar University, Salem -11 is a bonafide project work carried out by V.SENTHAMIL., Reg.No.16PMA1202., under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/Fellowship or other similar title so far.

Date: 10.04.2018

Place: Namakkal



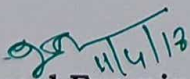
Signature of the  
Guide/Supervisor

Dr. V. SIVAKUMAR,  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002. Tamilnadu.




Signature of the Head of the Department

Dr.V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner

Dr. V. SIVAKUMAR,  
M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor  
Department of Mathematics  
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Namakkal - 637 002. Tamilnadu.



External Examiner

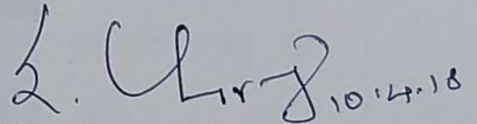
S. RAMADEVI,  
HOD / MATHS / VKAS

## CERTIFICATE

This is to certify that the project entitled "SOME STUDIED IN CRYPTOGRAPHY" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS** the Periyar University, Salem - 11 is a bonafide project work carried out by **R.SUGANTHI**, **Reg. No. 16PMA1203** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

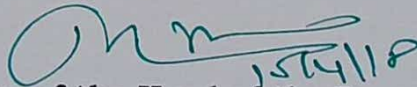
Date: 10.04.2018

Place: Namakkal



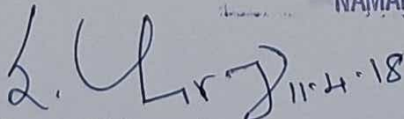
Signature of the

Guide/Supervisor



Signature of the Head of the Department

Dr.V. GANESAN, M.Sc.,M.Phil.,B.Ed.,PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner

  
External Examiner

S. RAMADEVU

HOD | MATHS | VKAS

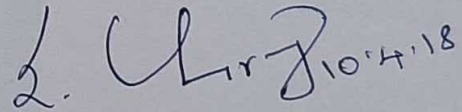


## CERTIFICATE

This is to certify that the project entitled "A STUDY ON NASTY AND TRIANGULAR NUMBERS" submitted in partial fulfillment of the requirement for the award of the Degree of Master of Science in **MATHEMATICS (Under Choice Based Credit System)** the Periyar University, Salem -11 is a bonafide project work carried out by **M. THENNAGASELVI., Reg.No., 16PMA1204** under my supervision and guidance and that no part of the project has been submitted for the award of any Degree/Diploma/Associateship/ Fellowship or other similar title so far.

Date: 10-04-18

Place: Namakkal

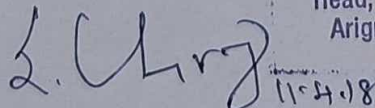


Signature of the  
Guide/Supervisor



Signature of the Head of the Department

Dr. V. GANESAN, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Head, Department of Mathematics,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.



Internal Examiner



External Examiner

S. RAMADEVI,  
HOD / MATHEMATICS / VKAS

**Dr.D.SASIKUMAR, M.Sc., M.Phil., Ph.D.**

Assistant Professor

PG & Research Department of Physics

Arignar Anna Government Arts College

Namakkal-637 002

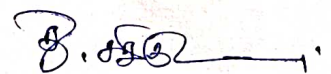
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### CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERIZATION OF CuO THIN FILM DEPOSITION BY DIPCOATING METHOD" submitted to the Periyar University, Salem in Partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN PHYSICS is a bonafide record of research work done by S.SOWMIYA, ( Reg. No. 16PPH1065) during 2017 – 2018 and that the dissertation has not previously formed the basis for the award of any other Degree, Diploma, associateship, fellowship or other tittle that the dissertation represents independent and original work on the part of the candidate under my guidance.

Place: Namakkal

Date: 4/4/18

  
Signature of the Guide

(Dr.D.SASIKUMAR.)

Dr. D. SASIKUMAR, M.Sc., M.Phil., Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.



Dr. V. VELUSAMY, M.Sc., M. Phil., PGDCA., Ph.D.  
Assistant Professor

PG&Research Department of Physics

Arignar Anna Government Arts College,

Namakkal – 637 002




### CERTIFICATE

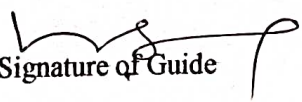
This is to certify that the thesis entitled “MOLECULAR INTERACTION STUDIES ON IMPACT OF DIETHYL ETHER ADDITION IN DIESEL + BIODIESEL + ETHANOL BLEND” by M. SANJEEVAN is a record of project work done by him during the period of his study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar title.

This is also certifying that the thesis represents the independent work of the candidate.

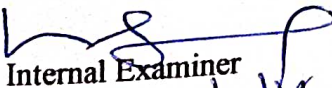
Place: Namakkal

Date: 9.4.2018

  
Dr. Head of the Department, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
Signature of Guide

Dr.V.VELUSAMY, M.Sc.,M.Phil.,PGDCA.,Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.

  
Internal Examiner  
11/4/18

  
External Examiner

Dr. V. VELUSAMY, M.Sc., M. Phil., PGDCA., Ph.D.

Assistant Professor

PG&Research Department of Physics

Arignar Anna Government Arts College,

Namakkal – 637 002



### CERTIFICATE

This is to certify that the thesis entitled "MOLECULAR INTERACTION STUDIES ON IMPACT OF DIETHYL ETHER ADDITION IN DIESEL + BIODIESEL + ETHANOL BLEND" by M. SANJEEVAN is a record of project work done by him during the period of his study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar title.

This is also certifying that the thesis represents the independent work of the candidate.

Place: Namakkal

Date: 09.4.2018

Signature of the candidate

(M.SANJEEVAN)

Head of the Department

Dr. S. BANGARU, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

Signature of Guide

Dr. V. VELUSAMY, M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.

Internal Examiner

External Examiner



**ARIGNAR ANNA GOVERNMENT ARTS COLLEGE,  
NAMAKKAL – 637 002.**


**POST GRADUATE & RESEARCH DEPARTMENT OF PHYSICS  
CERTIFICATE**

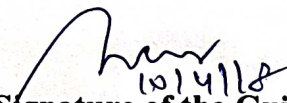
This is to certify that the project work entitled **Intermolecular interactions in ternary liquid mixtures of Nitrobenzene + Ethanol + Benzoldehyde by ultrasonic velocity measurements** submitted to the **Periyar University** in partial fulfilment of the requirements for the award of the **Degree of Master of Science in Physics** is a bonafide record of work done by **Ms.B.Dhivya (Register No : 16PPH1066)** under the guidance of **Dr. N. Palanivelu**, Assistant Professor of Physics, Arignar Anna Government Arts College, Namakkal.


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

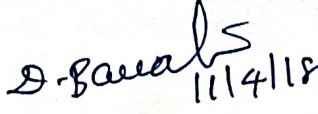
Place : Namakkal

Date : 10.4.2018

  
**Signature of the HOD**  
**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
**Signature of the Guide**  
**Dr. N. PALANIVELU**, M.Sc., M.Phil., B.Ed., Ph.D.,  
Assistant Professor of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal - 637 002, Tamilnadu.

  
**Internal Examiner**

  
**External Examiner**

**Dr. D.SASIKUMAR.,M.Sc., M.Phil., Ph.D**

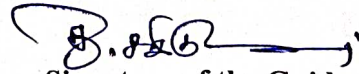
**Assistant professor  
Department of Physics  
Arignar Anna Government Arts College,  
Namakkal – 637 002.**

**CERTIFICATE**

This is to certify that the dissertation entitled “**PREPARATION AND CHARACTERIZATION OF CuO THIN FILM DEPOSITION BY DIPCOATING METHOD**” submitted to the Periyar University, Salem in Partial fulfillment of the requirement for the award of the degree of **MASTER OF SCIENCE IN PHYSICS** is a bonafide record of research work done by **S.PRIYA, ( Reg. No. 16PPH1073)** during 2017 – 2018 and that the dissertation has not previously formed the basis for the award of any other Degree, Diploma, associateship, fellowship or other title and that the dissertation represents independent and original work on the part of the candidate under my guidance.

**Place: Namakkal**

**Date: 4/9/18**

  
**Signature of the Guide**

**(Dr.D.SASIKUMAR)**

**Dr. D. SASIKUMAR, M.Sc.,M.Phil.,Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.**



## DECLARATION

**Dr.R.GOBI M.Sc.,B.Ed.,M.Phil.,Ph.D.,**

Assistant Professor,

PG & Research Department of Physics,

Arignar Anna Government Arts College,

Namakkal-637 002.



## CERTIFICATE


This is to certify that the M.Sc thesis entitled "INFLUENCE OF ANNEALING TEMPERATURE ON SYNTHESIZED BaSO<sub>4</sub> NANOPARTICLES VIA CHEMICAL PRECIPITATION METHOD" by P.NANDHAKUMAR is a record of project work done by his during the period of his study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associate ship, fellowship or other similar title.

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

Place: NAMAKKAL

Signature of the Guide

Date: 09.04.2018

  
09/04/18  
(Dr. R. GOBI)

**Dr. V. VELUSAMY, M.Sc., M. Phil., PGDCA., Ph.D.**

Assistant Professor

PG&Research Department of Physics

Arignar Anna Government Arts College,

Namakkal – 637 002




### CERTIFICATE

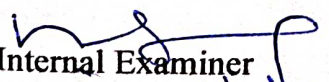
This is to certify that the thesis entitled **“MOLECULAR INTERACTION STUDIES ON IMPACT OF DIETHYL ETHER ADDITION IN DIESEL + BIODIESEL + METHANOL + BLEND”** by **Ms. G. PAVITHRA** is a record of project work done by her during the period of her study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar title.

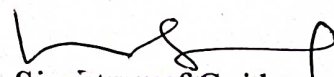
This is also certifying that the thesis represents the independent work of the candidate.

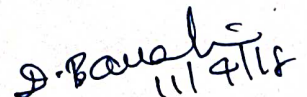
**Place: Namakkal**

**Date: 6.4.2018**

  
Head of the Department  
**Dr. S. BANGARU, M.Sc., M.Phil., Ph.D.,**  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
Internal Examiner  
11/4/18

  
Signature of Guide  
**Dr. V. Velusamy, M.Sc., M.Phil., PGDCA., Ph.D.,**  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.

  
External Examiner  
11/4/18



**Dr. N. SETHUPATHI**  
**Assistant Professor**  
**Department of Physics**  
**Arignar Anna Government Arts College**  
**Namakkal - 637002**

---

**CERTIFICATE**

This is to certify that the MSc thesis titled **“REFRACTIVE INDEX VALUES OF VARIOUS PERCENTAGE OF GLUCOSE SOLUTIONS BY LASER DIFFRACTION METHOD”** by **M.KIRUTHIKA** , Reg. No:**16PPH1069** is a record of research work done by her during the period of her study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associate ship, fellowship or other similar title. This is also to certify that the thesis represents the independent work of the candidate.

Place :Namakkal

Date : 09.04.2018



**Signature of the Guide**  
**Dr. N. SETHUPATHI, M.Sc,M.Phil,Ph.D,**  
Assistant Professor of Physics,  
Post Graduate & Research Department,  
Arignar Anna Government Arts College,  
Namakkal - 637 002, Tamil Nadu.

**ARIGNAR ANNA GOVERNMENT ARTS COLLEGE,**

**NAMAKKAL – 637 002.**

**POST GRADUATE & RESEARCH DEPARTMENT OF PHYSICS  
CERTIFICATE**

This is to certify that the project work entitled **Effect of benzaldehyde addition on the ultrasonic properties of ternary liquid mixtures** submitted to the **Periyar University** in partial fulfillment of the requirements for the award of the **Degree of Master of Science in Physics** is a bonafide record of work done by **Mr.P.Ramesh** (Register No : 16PPH1061) under the guidance of **Dr. N. Palanivelu**, Assistant Professor of Physics, Arignar Anna Government Arts College, Namakkal.

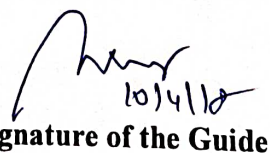
This is also to certify that the thesis represents the independent work of the candidate.

Place : Namakkal

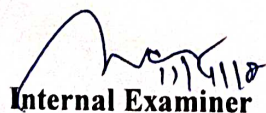
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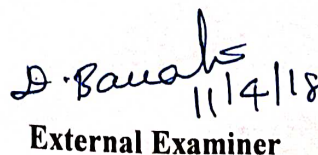
  
**Signature of the HOD**

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
**Signature of the Guide**

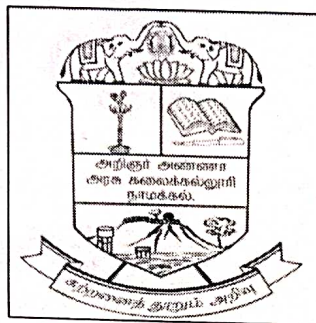
**Dr.N.PALANIVELU**, M.Sc., M.Phil., B.Ed., Ph.D.,  
Assistant Professor of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal - 637 002, Tamilnadu.

  
**Internal Examiner**

  
**External Examiner**

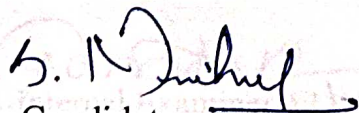



ARIGNAR ANNA GOVERNMENT ARTS COLLEGE  
NAMAKKAL-2



CERTIFICATE

Certified that the thesis titled “**MOLECULAR STRUCTURE AND VIBRATIONAL SPECTRA OF O-BROMO BENZOYL CHLORIDE BY DENSITY FUNCTIONAL METHODS**” is a bonafide record of work done by **S. MANIKANDAN** with University Register No: **16PPH1079** during the year 2017-2018 in the Department of Physics under supervision of **Dr. M. KANDASAMY**, Assistant Professor of Physics, Arignar Anna Govt. Arts College, Namakkal and is submitted to the Periyar University, Salem in partial fulfillment of the requirements for the award of the Degree of Master of Philosophy in Physics.

  
Candidate

  
Research Guide 9/14/18

**Dr. M. KANDASAMY**, M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal-637 002, Tamilnadu.

  
Head of the Department

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

**Dr. N. SETHUPATHI**

**Assistant Professor**

**Department of Physics**

**Arignar Anna Government Arts College**

**Namakkal 637002**

---

**CERTIFICATE**

This is to certify that the MSc thesis Titled “ **REFRACTIVE INDEX VALUES OF VARIOUS PERCENTAGE OF SUGAR SOLUTIONS BY LASER DIFFRACTION METHOD**” by **M.LOGESHWARI** , Reg. No:16PPH1070 is a record of research work done by her during the period of her study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associate ship, fellowship or other similar title. This is also to certify that the thesis represents the independent work of the candidate.

Place : Namakkal

Date : 09.04.2018.



**Signature of the Guide**

**Dr. N. SETHUPATHI**, M.Sc.M.Phil,Ph.D,  
Assistant Professor of Physics,  
Post Graduate & Research Department,  
Arignar Anna Government Arts College,  
Namakkal - 637 002, Tamil Nadu.



## CERTIFICATE

Certified that the dissertation titled "**Crystal Growth and Characterization of Pure KBr & RbBr Single Crystals**" is a bonafide record of research work done by **L.Gowri** with Register No.16PPH1067 under the supervision of **Dr.S.BANGARU**, Associate Professor and Head, PG & Research Department, Department of Physics, Arignar Anna Govt. Arts College, Namakkal-2 and is submitted to the Periyar University, Salem-11 in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics.

**L. Gowri**  
Signature of Candidate

  
Signature of Research Guide

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
Head of the Department

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

## CERTIFICATE

Certified that the dissertation titled "**Crystal Growth and Characterization of Pure KBr & RbBr Single Crystals**" is a bonafide record of research work done by **L.Gowri** with Register No.**16PPH1067** under the supervision of **Dr.S.BANGARU**, Associate Professor and Head, PG & Research Department, Department of Physics, Arignar Anna Govt. Arts College, Namakkal-2 and is submitted to the Periyar University, Salem-11 in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics.

**L. Gowri**  
Signature of Candidate

  
Signature of Research Guide

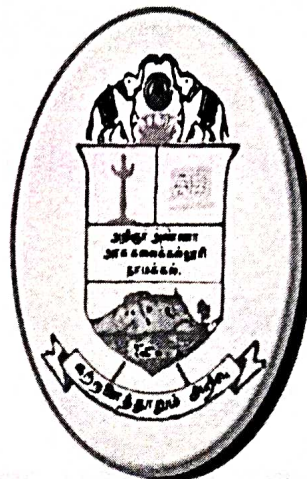
**Dr. S. BANGARU**, M.Sc.,M.Phil.,Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
Head of the Department

**Dr. S. BANGARU**, M.Sc.,M.Phil.,Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.



**Dr.R.GOBI M.Sc., B.Ed., M.Phil., Ph.D.,**  
Assistant Professor,  
PG & Research Department of Physics,  
Arignar Anna Government Arts College,  
Namakkal-637 002.



### **CERTIFICATE**

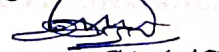
This is to certify that the M.Sc thesis entitled **“A BIOGENIC APPROACH FOR GREEN SYNTHESIS OF SILVER NANOPARTICLES USING PEEL EXTRACT OF MANGIFERA INDICA”** by **T.POTHUMPONNU** is a record of project work done by his during the period of his study under my guidance and the thesis has not previously formed the basis for the award of any other degree/diploma/associate ship/ fellowship or other similar title.

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

Place: **NAMAKKAL**

Date: **09.04.2018**

Signature of the Guide

  
09/04/18  
**(Dr.R.GOBI)**

## DECLARATION

**Dr.D.SASIKUMAR, M.Sc., M.Phil., Ph.D.**

Assistant Professor

PG & Research Department of Physics

Arignar Anna Government Arts College

Namakkal-637 002

---

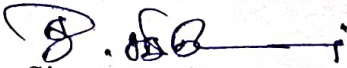
## CERTIFICATE

This is to certify that the M.Sc thesis titled "**SYNTHESIS AND CHARACTERIZATION OF ZnO TNIN FILM DEPOSITION BY DIP COATING METHOD**" Submitted by **K.SARANYA** is a record of project work done by her during the period of her study under my guidance and the thesis has not been previously formed the basis for the award of any other degree, diploma, associate ship, fellowship or any other similar title.

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

Place: NAMAKKAL

Date: 4/9/18

  
Signature of the Guide

**(Dr.D.SASIKUMAR)**

Dr. D. SASIKUMAR, M.Sc., M.Phil., Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.



## CERTIFICATE

Certified that the dissertation titled "THE PXRD, FTIR, FT-RAMAN AND VICKER'S MICROHARDNESS STUDIES ON PURE KCl AND RbCl SINGLE CRYSTALS" is a bonafide record of research work done by R. PRITHIVIRAJ with Register No. 16PPH1060 under the supervision of Dr. S. BANGARU, Associate Professor and Head, PG & Research Department, Department of Physics, Arignar Anna Govt. Arts College, Namakkal-2 and is submitted to the Periyar University, Salem-11 in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics.

R. Prithiviraj

Signature of Candidate

  
Signature of Research Guide

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
Head of the Department

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

## CERTIFICATE

Certified that the dissertation titled "A New Four-parameter Generalized van der Waals Equation of State: Metastable State of Group IV Elements" is a bonafide record of project work done by **G.Theertharaman** with University Register No.16PPH1078 under the supervision of **Dr.R.Balasubramanian**, Assistant Professor, PG and Research Department of Physics, Arignar Anna Government Arts College, Namakkal and is submitted to the Periyar University, Salem in partial fulfillment of the requirements for the award of the Degree of Master of science in Physics

*G.Theertharaman*

Candidate

*M. R. Balasubramanian*

Research Guide

**Dr. R. BALASUBRAMANIAN**  
M.Sc., Ph.D., (Moscow)  
Assistant Professor of Physics  
Arignar Anna Govt. Arts College  
Namakkal - 637 002.

*S. Bangaru*

Head of the Department

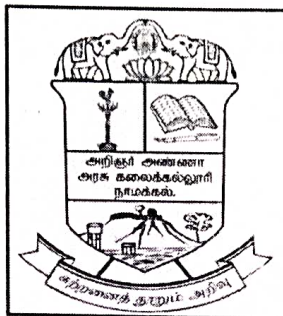
**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

Internal Examiner

External Examiner



ARIGNAR ANNA GOVERNMENT ARTS COLLEGE  
NAMAKKAL-2



CERTIFICATE

Certified that the thesis titled "VIBRATIONAL SPECTROSCOPIC STUDIES AND COMPUTATIONAL STUDY OF MOLECULAR STRUCTURE, FRONTIER MOLECULAR ORBITALS OF 3-AMINO-2-BROMOPYRIDINE BY DENSITY FUNCTIONAL METHODS" is a bonafide record of work done by R. KALAISELVAN with University Register No: 16PPH1058 during the year 2017-2018 in the Department of Physics under supervision of Dr.M. KANDASAMY, Assistant Professor of Physics, Arignar Anna Govt. Arts College, Namakkal and is submitted to the Periyar University, Salem in partial fulfillment of the requirements for the award of the Degree of Master of Science in Physics.

R. Kalaiselvan  
Candidate

Dr. S. Bangaru  
Head of the Department

Dr. S. BANGARU, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

Dr. M. Kandasamy  
Research Guide 9/14/18

Dr. M. KANDASAMY, M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal-637 002, Tamilnadu.

**Dr. V. VELUSAMY, M.Sc., M. Phil., PGDCA., Ph.D.**

Assistant Professor

PG&Research Department of Physics

Arignar Anna Government Arts College,

Namakkal – 637 002



**CERTIFICATE**

This is to certify that the thesis entitled **“MOLECULAR INTERACTION STUDIES ON IMPACT OF DIETHYL ETHER ADDITION IN DIESEL + BIODIESEL + METHANOL + BLEND”** by **Ms. G. PAVITHRA** is a record of project work done by her during the period of her study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar title.

This is also certifying that the thesis represents the independent work of the candidate.

**Place: Namakkal**

**Date: 6.4.2018**

**Head of the Department**

**Dr. S. BANGARU, M.Sc., M.Phil., Ph.D.,**  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

**Internal Examiner**

**Signature of Guide**

**Dr.V.VELUSAMY, M.Sc., M.Phil., PGDCA., Ph.D.,**  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal-2, Tamil Nadu.

**External Examiner**



**Dr.R.GOBI M.Sc., B.Ed., M.Phil., Ph.D.,**  
Assistant Professor,  
PG & Research Department of Physics,  
Arignar Anna Government Arts College,  
Namakkal-637 002.



---

### CERTIFICATE

This is to certify that the M.Sc thesis entitled **“EFFECT OF Sn CONCENTRATION ON THERMAL, STRUCTURAL, FUNCTIONAL AND MORPHOLOGICAL PROPERTIES IN CdO NANOPARTICLES”** by **A.VENKATESH** is a record of project work done by his during the period of his study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associate ship, fellowship or other similar title.

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

Place: NAMAKKAL

Date: 09/04/18

Signature of the Guide



(Dr.R.GOBI)

**Dr. V. VELUSAMY, M.Sc., M. Phil., PGDCA., Ph.D.**

Assistant Professor

PG & Research Department of Physics  
Arignar Anna Government Arts College,  
Namakkal - 637 002



### **CERTIFICATE**

This is to certify that the thesis entitled **“MOLECULAR INTERACTION STUDIES ON DIESEL + BIODIESEL + METHANOL BLEND”** is a record of project work done by **G. VANITHA** during the period of her study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associateship, fellowship or other similar title.

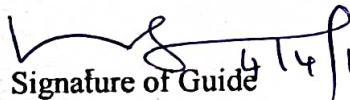
This is also certifying that the thesis represents the independent work of the candidate.

**Place: Namakkal**


**Date: 4.4.18**

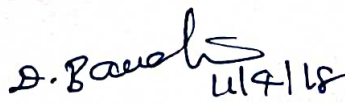
  
Head of the Department

**Dr. S. BANGARU**, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Department of Physics,  
Arignar Anna Govt. Arts College,  
Namakkal-2, Tamil Nadu.

  
Signature of Guide

**Dr. V. VELUSAMY**, M.Sc., M.Phil., PGDCA., Ph.D.,  
Assistant Professor of Physics  
Post Graduate & Research Department  
Arignar Anna Government Arts College  
Namakkal - 637 002, Tamilnadu.

  
Internal Examiner  
11/4/18

  
External Examiner



**Dr. N. SETHUPATHI**

**Assistant Professor**

**Department of Physics**

**Arignar Anna Government Arts College**

**Namakkal - 637002**

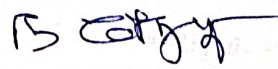
---

**CERTIFICATE**

This is to certify that the MSc thesis titled “ **REFRACTIVE INDEX VALUES OF VARIOUS PERCENTAGE OF NaCl(SODIUM CHLORIDE) SOLUTIONS BY LASER DIFFRACTION METHOD**” by **S.KANAGA** , Reg. No:16PPH1081 is a record of research work done by her during the period of her study under my guidance and the thesis has not previously formed the basis for the award of any other degree, diploma, associate ship, fellowship or other similar title. This is also to certify that the thesis represents the independent work of the candidate.

Place :Namakkal

Date : 09.04.2018

  
Signature of the Guide

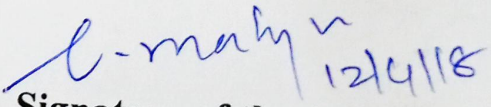
Dr. N. SETHUPATHI, M.Sc,M.Phil,Ph.D,  
Assistant Professor of Physics,  
Post Graduate & Research Department,  
Arignar Anna Government Arts College,  
Namakkal - 637 002, Tamil Nadu.

# CERTIFICATE

This is to certify that the project work dissertation entitled "CARBON NANOTUBE SANDWICHED MANGANESE OXIDE THIN FILMS USING JET-NEBULIZER SPRAY PYROLYSIS DEPOSITION TECHNIQUE" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by N.SARAVANAN, Reg No: 16PCH1134 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

  
12/4/18  
Head of the Department

முனைவர் துரை,  
வேதியியல் துறை,  
அ.அ.அரண்மனை கல்லூரி,  
நாமக்கல் - 637 001.

  
12/4/18  
Signature of the Guide

Submitted for the Viva Voce examination held on:

EXAMINERS:

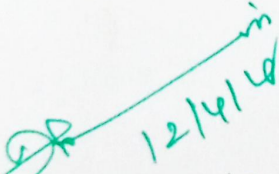
1) S. Mangayarkarasi  
12/4/18.

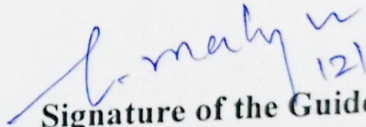
2) C. Mary  
12/4/18



## CERTIFICATE

This is to certify that the project work dissertation entitled "GRAPHITIC OXIDE SANDWICHED TUNGSTEN OXIDE THIN FILM USING JET-NEBULIZER SPRAY PYROLYSIS DEPOSITION TECHNIQUE" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by M.KARTHIKEYAN, Reg No: 16PCH1128 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

  
12/4/18  
Head of the Department  
வேதியியல் துறை,  
அ-அ-அரண்மனை கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

  
12/4/18  
Signature of the Guide

Submitted for the Viva Voce examination held on:

EXAMINERS: 1) S. Manjayarajani 12/4/18.  
2) L. Mahalingam 12/4/18

ARIGNAR ANNA GOVERNMENT ARTS COLLEGE- NAMAKKAL -2

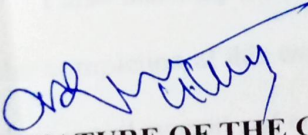
[Affiliated to Periyar University Salem, Govt. of Tamil Nadu]


PG & RESEARCH DEPARTMENT OF CHEMISTRY

CERTIFICATE

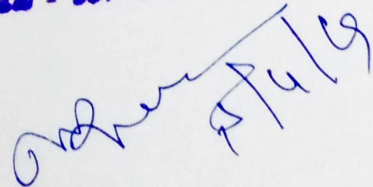


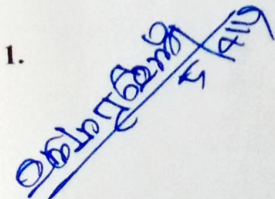
This is to certify that the dissertation entitled "Removal of Total Dissolved Solids, Total hardness and Chlorides of Bore Well Water using *Citrus aurantium* L., fruit shells Activated Carbon " is a bonafide record of research work done by Ms.M.SATHYA [Reg. No: 17PCH1162] during 2018- 2019, submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the Degree of **MASTER OF SCIENCE IN CHEMISTRY** and that the dissertation has not previously formed the basis for the award of any other Degree, Diploma, Associate – ship, Fellowship or other title and that the dissertation represents in independent and original work on the part of the candidate under the guidance of **Dr.P.THAMILARASU**, Assistant Professor of Chemistry, PG and Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal -2.

  
SIGNATURE OF THE GUIDE HEAD OF THE DEPARTMENT  
**Dr. P. THAMILARASU**, M.Sc., M.Phil., Ph.D.,  
Assistant Professor,  
PG & Research Department of Chemistry,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.  
EXAMINERS

  
தமிழ் தலைவர்,  
வேதியியல் துறை,  
அ.அ.அரா கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

2.



1. 



ARIGNAR ANNA GOVERNMENT ARTS COLLEGE- NAMAKKAL -2

[Affiliated to Periyar University Salem, Govt. of Tamil Nadu]

PG & RESEARCH DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to certify that the dissertation entitled "Kinetic and Equilibrium Studies on the Removal of Congo red Dye Onto *Vigna radiatus* Pericarb Activated Carbon " is a bonafide record of research work done by Mr. T. KARTHIK [Reg. No: 17PCH1166] during 2018- 2019, submitted to the Periyar University, Salem in partial fulfillment of the requirement for the award of the Degree of MASTER OF SCIENCE IN CHEMISTRY and that the dissertation has not previously formed the basis for the award of any other Degree, Diploma, Associate – ship, Fellowship or other title and that the dissertation represents in independent and original work on the part of the candidate under the guidance of Dr. P. THAMILARASU, Assistant Professor of Chemistry, PG and Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal -2.

SIGNATURE OF THE GUIDE  
Dr. P. THAMILARASU, M.Sc., M.Phil., Ph.D.,  
Assistant Professor,  
PG & Research Department of Chemistry,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002.

EXAMINERS

1.

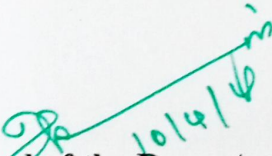
2.

HEAD OF THE DEPARTMENT

முத்து தாமஸ்,  
வேதியல் துறை,  
அ.அ.அரா கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

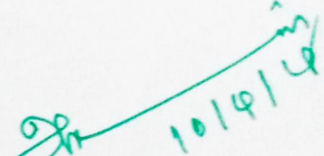
## CERTIFICATE

This is to certify that the project work dissertation entitled "SYNTHESIS OF NANO ZnO AND ITS APPLICATION TO PHOTOCATALYSIS" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by D.VEDIYAPPAN, Reg No: 16PCH1136 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

  
10/4/18

Head of the Department

ஆனைத்தி தலைவர்,  
வேதியியல் துறை,  
அ.அ.அரண் கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

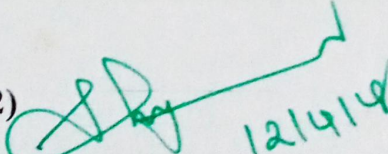
  
10/4/18

Signature of the Guide

ஆனைத்தி தலைவர்,  
வேதியியல் துறை,  
அ.அ.அரண் கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

Submitted for the Viva Voce examination held on:

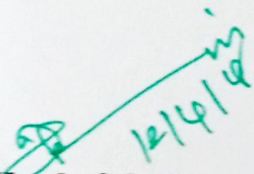
EXAMINERS: 1) S. Mangayarkarasi  
12/4/2018

2)   
12/4/18



## CERTIFICATE

This is to certify that the project work dissertation entitled "GREEN SYNTHESIS AND APPLICATION OF BISMUTH BASED PHOTOCATALYST" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by P.SASIKALA, Reg No: 16PCH 1141 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

  
12/4/18  
Head of the Department

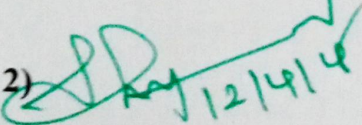
மாண்புமிகு பேராசிரியர்,  
வேதியியல் துறை,  
அ.அ.அரசு கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

  
12/4/18  
Signature of the Guide

Dr.P. SIVAKUMAR, Ph.D.,  
Assistant Professor / Chemistry  
Arignar Anna Govt. Arts College  
Namakkal - 637 002.

Submitted for the Viva Voce examination held on:

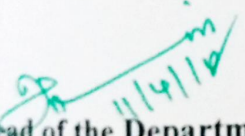
EXAMINERS:

- 1) S. Mangayarkarasi  
12/4/18.
- 2)   
12/4/18

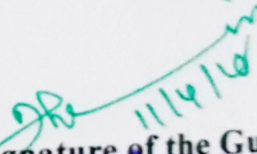
# CERTIFICATE

This is to certify that the project work dissertation entitled "MICROWAVE SYNTHESIS OF AN ACTIVATED CARBON AND ANALYSING ITS APPLICATIONS" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by P.MADHESH, Reg No: 16PCH1129 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

Head of the Department

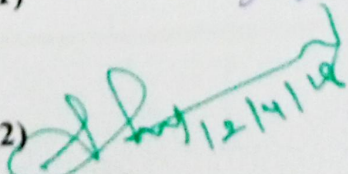
  
வேதியியல் துறை,  
அ-அ-அரக கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

Signature of the Guide

  
வேதியியல் துறை,  
அ-அ-அரக கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

Submitted for the Viva Voce examination held on:

EXAMINERS:

- 1) P. Mangayarkarasi 12/4/18.
- 2)  12/4/18.



## CERTIFICATE

This is to certify that the project work dissertation entitled "AMINO FUNCTIONALISED SILICA FOR THE ADSORPTIVE REMOVAL OF A TETILE DYE" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by S.DINESH KUMAR, Reg No: 16PCH1125 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

Head of the Department

சுரைத் தலைவர்,  
வேதியியல் துறை,  
அ-அ-அரண்மனைக் கல்லூரி,  
நாமக்கல் - 637 001.

Submitted for the Viva Voce examination held on:

EXAMINERS:

1) S. Nangayankarani  
12/4/18.

2) Dr. P. Sivakumar  
12/4/18

Signature of the Guide

Dr. P. SIVAKUMAR, Ph.D.,  
Assistant Professor / Chemistry  
Arignar Anna Govt. Arts College  
Namakkal - 637 002.





# CERTIFICATE

This is to certify that the project work dissertation entitled "SYNTHESIS AND APPLICATIONS OF NANO CuO BY SOL-GEL PROCESS" submitted in partial fulfillment of the degree of MASTER OF SCIENCE IN CHEMISTRY of the ARIGNAR ANNA GOVERNMENT ARTS COLLEGE NAMAKKAL, is bonafied record of the project work carried out by S.SATHYAMOORTHY, Reg No: 16PCH1135 under my guidance and supervision and I certify that this work is original and has not been submitted else where for any degree.

Head of the Department

12/4/18  
தலைவர்,  
வேதியியல் துறை,  
அ.அ.அ. அரசு கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

Signature of the Guide

12/4/18  
Dr.P. SIVAKUMAR, Ph.D.,  
Assistant Professor / Chemistry  
Arignar Anna Govt. Arts College  
Namakkal - 637 002.

Submitted for the Viva Voce examination held on:

- EXAMINERS:
- 1) S. Mangayarkarasi  
12/4/18
  - 2) Dr.P. Sivakumar  
12/4/18

# CERTIFICATE

This is to certify that dissertation entitled "INHIBITION EFFECT OF BENZAMIDE ON CORROSION OF MILD STEEL IN ACID MEDIUM" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by R. RAMKI(16PCH1132) during the period 2017-2018 of his study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal 637 002, Tamil Nadu, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

*H. Sankudevan*

Signature of the Guide

**P. SANKUDEVAN, M.Sc., M.Phil.,**  
Assistant Professor,  
PG & Research Department of Chemistry,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002. Tamil Nadu. India.

Place : Namakkal

Date : 11/04/18

*DR* 12/4/18  
Head of the Department

உதயமாத் தலைவர்,  
வேதியியல் துறை,  
அ-அ-அரண் கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

Project work evaluation viva-voce examination held on

Examiners :

1. *S. Mangayarkarasi*  
12/4/18.

2. *H. Sankudevan* 12/4/18



## CERTIFICATE

This is to certify that dissertation entitled "SYNTHESIS, IR SPECTRAL CHARACTERIZATION, ANTIBACTERIAL AND ANTIFUNGAL STUDIES OF (E)-N'-(4-CHLOROBENZYLIDENE) FORMOHYDRAZIDE" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by **Ms. S. SIVAKAMI** (16PCH1142) during the period 2017-2018 of her study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal 637 002, Tamil Nadu, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

*H. J. 11/04/18*  
**Signature of the Guide**  
**P. SANKUDEVAN, M.Sc., M.Phil.,**  
Assistant Professor,  
PG & Research Department of Chemistry,  
Arignar Anna Govt. Arts College,  
NAMAKKAL - 637 002. Tamil Nadu. India.

*12/4/18*  
**Head of the Department**  
ஆதரத் தலைவர்,  
வேதியியல் துறை,  
அ-அ-அரசு கலைக் கல்லூரி,  
நாமக்கல் - 637 002

Project work evaluation viva-voce examination held on *12/4/18*

*Declaration*

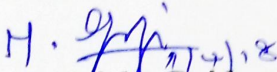
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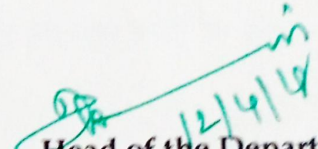
*S. Mangayarkkani*  
*12/4/18.*

*H. J. 12/4/18*

## CERTIFICATE

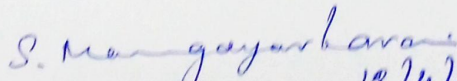
This is to certify that dissertation entitled "Crystal growth and characterization of Nonlinear Optical L-Tryptophan doped Cadmium Chloride" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by C.N.Suvetha (16PCH1143) during the period 2017-2018 of her study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal - 637002, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

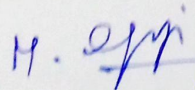
  
**Signature of the Guide**  
**Dr. M.GOVINDARAJU,**  
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ஆணைத் தலைவர்,  
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Submitted for the viva-voice examination held on : 12/04/2018

**Examiners :**

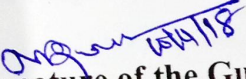
  
12/4/18.

  
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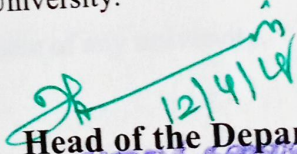


## CERTIFICATE

This is to certify that dissertation entitled "STUDIES ON THE REMOVAL OF IMPURITIES FROM SAGO INDUSTRY WASTEWATER BY USING EUPHORBIA TORTILIS STEM ACTIVATED CARBON" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by Mr. A. NAVEENKUMAR [Reg. No: 16PCH1130] during the period 2017-2018 of his study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal 637 002, Tamil Nadu, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

  
Signature of the Guide

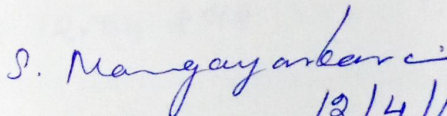
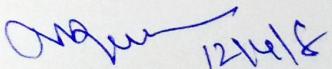
**Dr. P. THAMILARASU, M.Sc., M.Phil., Ph.D.,**  
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வேதியியல் இறை,  
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Submitted for the viva-voce examination held on: 12/4/18

Examiners :

1.   
S. Mangayarkarasi  
12/4/18.
2.   
12/4/18

## CERTIFICATE

This is to certify that dissertation entitled "CORROSION INHIBITION EFFECT OF AN AZO DYE DERIVATIVE OF 3-[(E)-(2-NITRO PHENYL) DIAZENYL]PENTANE -2,4 -DIONE (3NPDP) ON MILD STEEL IN ACIDIC SOLUTION: DFT STUDY" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by R.Prabu(Register No: 16PCH1137) during the period 2017-2018 of her study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal, Tamil Nadu- 637002, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

*M. Govindaraju*  
11/4/18

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**Place : Namakkal**

**Date : 11/4/18**

**Submitted for the viva-voce examination held on:**

*12/4/18.*

**Examiners**

*S. Mangayarkarasi*  
12/4/18

*M. Govindaraju*  
12/4/18

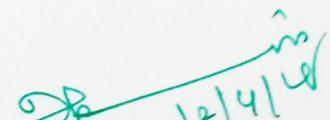


## CERTIFICATE

This is to certify that dissertation entitled "SYNTHESIS, SPECTRAL CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF (E)-N-AMINO-N'-p-TOLYFORMAMIDINE" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by R.MEENA (16PCH1139) during the period 2017-2018 of her study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal 632 002, Tamil Nadu, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

  
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வேதியியல் துறை,  
அ.அ.அரண்மனைக் கல்லூரி,  
நாமக்கல் - 637 001.

Project work evaluation viva-voce examination held on...12/4/18

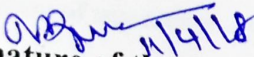
Examiners:

S. Mangayarkarasi  
12/4/18

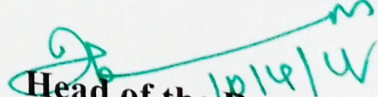
H. Ganesh  
12/4/18

## CERTIFICATE

This is to certify that dissertation entitled " REMOVAL OF TOTAL DISSOLVED SOLIDS OF BORE WELL WATER USING VIGNA VNGUICULATA SEED SHELLS ACTIVATED CARBON" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by Mr. S. GOWTHAM [Reg. No: 16PCH1126] during the period 2017-2018 of his study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal 637 002, Tamil Nadu , under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

  
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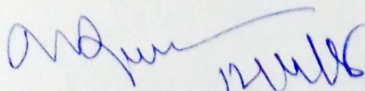
Dr. P. THAMILARASU, M.Sc., M.Phil., Ph.D.,  
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அறிஞர் அண்ணா,  
வேதியியல் துறை,  
அ-அ-அரக கலைக் கல்லூரி,  
நாமக்கல் - 637 001.

Submitted for the viva-voce examination held on: 12/4/18

Examiners :

1. S. Mangayarkarasi  
12/4/18

2. 



## CERTIFICATE

This is to certify that dissertation entitled "Synthesis, characterization and experimental, biological studies of a new Schiff base Cu (II) complex" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN CHEMISTRY** is a record of original work done by K.Kalki ( reg no : 16PCH1127) during the period 2017-2018 of his study in the PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal, Tamil Nadu - 637002, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.

M. Govindaraju  
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Signature of the Guide

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குறைத் தலைவர்,  
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Submitted for the viva voce Examination held on 12/4/18

Internal Examiner

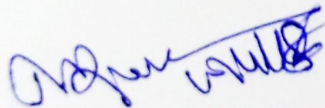
M. Govindaraju  
12/4/18

External Examiner

S. Neungayyarharani  
12/4/18

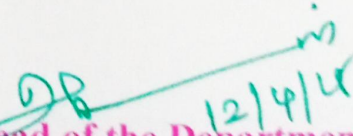
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This is to certify that dissertation entitled "**ONE-POT MULTICOMPONENT SYNTHESIS, SPECTRAL CHARACTERIZATION AND BIOLOGICAL EVALUATION OF DIETHYL 4-HYDRAZINYL-1,4-DIHYDRO-2,6-DIMETHYLPYRIDINE-3,5-DICARBOXYLATE**" submitted to the Periyar University in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN CHEMISTRY** is a record of original work done by **R. DEENADEVI (16PCH1138)** during the period **2016-2018** of her study in the **PG & Research Department of Chemistry, Arignar Anna Government Arts College, Namakkal 632 002, Tamil Nadu**, under my supervision and guidance and the dissertation has not formed the basis for the award of any Degree / Diploma / Fellowship / Associate ship or other similar titles to any candidate of any University.



**Signature of the Guide**

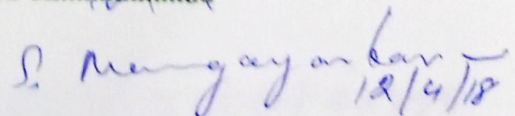
**Dr. P. THAMILARASU, M.Sc., M.Phil., Ph.D.,**  
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**Head of the Department**  
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வேதியியல் துறை,  
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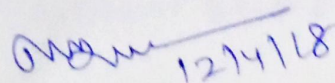
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**EXAMINERS: 1.**



12/4/18

**2.**



12/4/18