



Sadakathullah Appa College

*An Autonomous Institution, Re-Accredited by NAAC at an 'A' Grade, *ISO 9001 : 2018 Certified*

CRITERION III

RESEARCH, INNOVATION AND EXTENSION

3.7.1. Collaborative Activities

(2017 - 2018)

Submitted to

THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

August 2022





Sadakathullah Appa College

*An Autonomous Institution, Re-Accredited by NAAC at an 'A' Grade, * ISO 9001: 2015 Certified *

CRITERION III

RESEARCH, INNOVATION AND EXTENSION

3.7.1. Collaborative Activities

3.7.1 Number of Collaborative Activities Per year for research/faculty exchange/student exchange/internship/on-the-job training/project work	
2017-18	78

Principal


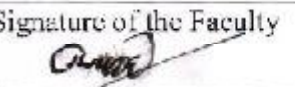
PRINCIPAL

SADAKATHULLAH APPA COLLEGE
Rahmath Nagar, TIRUNELVELI - 627 011.





Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr.S.M.A. Syed Mohamed Khaja , STCO01 Assistant Professor and Head, Department of Commerce Sadakathullah Appa College(Autonomous), Tirunelveli
2	Name of the Collaborating Faculty with Designation	: Dr.T.S.Subbulakshmi Assistant Professor, Department of Commerce, Sri Parama Kalyani College, Alwarkurichi
3	Name of the Collaborating Organization	: Sri Parama Kalyani College, Alwarkurichi
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: Co-guide
6	Period of Collaboration	: From : 10.01.2018 To: 10.01.2021
7	Financial Involvement (if any)	:
8	Proof Attached	: Yes
Signature of Principal		Signature of the Collaborating Faculty Dr. T.S. Subbulakshmi
		



DR. K. SENTHAMARAI KANNAN

DIRECTOR

REF : MSU/RES/R17/JANUARY2018

Date : January 10, 2018

Ph.D., Programme Commencement Order

To

ULAGAMMAL V

53, SHAFI GARDEN, ANAIYANKULAM,, PERUMALPURAM
 Tamil Nadu, Thirunelveli, Pincode : 627007
 Mobile No. : 9942200453, Email ID : ulagammalv1903@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
 Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

1. Name of the Scholar : ULAGAMMAL V
2. Registration No. : 18121101012004
3. Discipline : Commerce
4. Gender : Female
5. Social Category (Community) : BC
6. Nationality : INDIAN
7. FWD Status : Not Applicable
8. Admission Based On : M.Phil
9. Name of the Supervisor : Dr. T.S. SUBBULAKSHMI
10. Name of the Co-Supervisor : DR S M A EYED MUHAMED KHAJA
11. Mode : PART TIME INTERNAL
12. Research Centre : Sadakathulla Appa College, Tirunelveli.
13. Date of Commencement : 10.01.2018
14. Proposed Title : A study on job satisfaction and organizational citizenship behaviour among school teachers in Tirunelveli district
15. Doctoral Committee Members Details :
 1. DR. E. SIVASANKARI
 Assistant Professor, Department of Commerce, Sri
 Paramakalyani College, Alverkunchi
 Mobile No. : 9952092000, Email ID : sankrispkc@gmail.com
 2. DR. E. ANGELSAHAL ROSE
 Assistant Professor, Department of Commerce, Sarah Tucker
 College, Paliyankottai
 Mobile No. : 8506754431, Email ID :
 angejeff.rose1982@gmail.com

ASET

SUPD

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DIRECTOR



DR. K. SENTHAMARAI KANNAN
DIRECTOR

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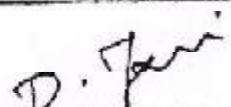
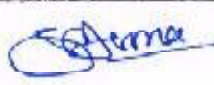
Guide : Dr. T.S. SUBBULAKSHMI ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE SRI PARAMAKALYANI COLLEGE ALWARKURICHI Tamil Nadu Tirunelveli, Pincode - 627412 Mobile No. : 9486940644 Email ID : ts.subbu123@gmail.com	Co-Guide : DR. S.M.A.BYED MOHAMMED RIJWA ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE SADAKATHULLAH APPA COLLEGE TIRUNELVELI Tamil Nadu, Tirunelveli Pincode - 627005 Mobile No. : 9843252500 Email ID : smakhaaj@gmail.com
DC Member 1 : DR. R. SIVASANKAR Assistant Professor, Department of Commerce, Sri Paramakalyani College, Alwarkurichi	DC Member 2 : DR. E. ANGE SARAL ROSE Assistant Professor, Department of Commerce, Sri Sadakatullah College, Palyamkottai
The Principal, Sadakatullah Appa College, Tirunelveli.	

Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co Supervisor (wherever applicable).
- Candidates with M.Phil. qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits.
- Research Centre fee of Rs. 3000/- (per annum) to be paid to the Research Centre.
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting.
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to paid for II AC Railway fare and sitting fee of Rs. 500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 11000/- per annum on or before January 31st of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank, M.S. University branch or through challan in state bank of India, Power To: bill account to: M.S.U. 6/1 6598950914.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
- It is also informed that the entire duration of the Ph.D. Research work is governed by the Ph.D. Regulations of 01.07.2016.
- For Details of functions of Doctoral Committee refer revised Ph.D. Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)
- First Doctoral Committee meeting should be convened within two week from the date of Registration.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	Dr. K. Hema Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	Dr. D. Jockim Assistant Prof. of English
3	Name of the Collaborating Organization	St. Xavier's College Palayamkottai, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	DC Member for M. Maryl Chriso Reg. No. 17211284012019
6	Period of Collaboration	From: 10.8.17 To: 28.07.2021
7	Financial Involvement (if any)	—
8	Proof Attached	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty Dr. D. JOCKIM Assistant Professor of English St. Xavier's College (Autonomous) Palayamkottai, Tirunelveli-2
		 Signature of the Faculty

Assistant Professor of English
St. Xavier's College (Autonomous)
Palayamkottai, Tirunelveli-2



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN

DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

MARYL CHRISHO. M
67 SIVAN SOUTH CAR STREET, PALAYAMKOTTAI
Tamil Nadu, Thirunelveli, Pincode - 627002
Mobile No. : 7829006336, Email ID : xavierchrish30@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|---|---|
| 1. Name of the Scholar | : MARYL CHRISHO. M |
| 2. Registration No. | : 17211284012019 |
| 3. Discipline | : English |
| 4. Gender | : Female |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : INDIAN |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.PHI |
| 9. Name of the Supervisor | : DR D JOCKIM |
| 10. Name of the Co-Supervisor | : NIL |
| 11. Mode | : FULL TIME |
| 12. Research Centre | : St. Xavier's College (Autonomous), Palayamkottai |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : RECONSTRUCTING INDIA'S PAST A POST COLONIAL READING OF
NAYANTARA SAHGAL'S SELECT NOVELS |
| 15. Doctoral Committee
Members Details | : 1. DR K HEMA
Assistant Professor of English; Sadakthaulah Appa College,
Tirunelveli.
Mobile No. : 9486379446, Email ID :
hemaselvan11@gmail.com
2. DR V CHRISTOPHER RAMESH
Assistant Professor of English,, Govt. Arts College, Melur,
Madurai.
Mobile No. : 9443008570, Email ID :
vchristopherramesh@gmail.com |

10-8-17
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10/8/17
SUPDT

10/8/17
AR

10/8/17
DIRECTOR



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
 ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

Copy to:

Guide : DR D JOCKIM S T Xaviers College PALAYAMKOTTAI Tamil Nadu Thirunelveli, Pincode - 627002 Mobile No. : 9994657296 Email ID : d.jockim@gmail.com	Co-Guide : NIL
DC Member 1 : DR K HEMA Assistant Professor of English, Sarakthaulah Appa College, Tirunelveli.	DC Member 2 : DR V CHRISTOPHER RAMESH Assistant Professor of English,, Govt. Arts College, Melur, Madurai.
The Principal, St. Xavier's College (Autonomous), Palayamkottai	


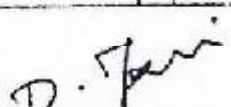
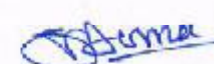
Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with M.Phil., qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits
- Research Centre Fee of Rs. 2400/- (per annum) to be paid to the Research Centre
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- and refreshment / contingency cost of Rs.500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 9000 /- per annum on or before June 30th of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank, M.S University branch or through challan in state bank of India, Power 20th account to MSU A/c 32723606944.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
- It is also informed that the entire duration of the Ph.D., Research work is governed by the Ph.D., Regulations of 01.07.2016.
- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)

Phone : 0462 - 2333741, 2333721, 9487999632, 9487907000, FAX: 2322973, Website : msuniv.ac.in



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	<u>Dr. K. Hema</u> Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	:	<u>Dr. D. Jockim</u> Assistant Prof. of English
3	Name of the Collaborating Organization	:	St. Xavier's College, Palayamkottai, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	<u>Research</u>
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for S. Rajkumar Reg. No. 17221284011025
6	Period of Collaboration	:	From: 10.08.2017 To 10.5.2021
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty Dr. D. JOCKIM	
		 Signature of the Faculty	

Assistant Professor of English
St. Xavier's College (Autonomous)
Palayamkottai, Tirunelveli-2



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

RAJKUMARAN S

19-1 PTR Nagar, Palayamkottai Road
 Tiruchendur

Tamil Nadu, Thootlukudi, Pincode - 628215

Mobile No. : 8870252038, Email ID : rajkumarannoc@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
 Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|--|---|
| 1. Name of the Scholar | : RAJKUMARAN S |
| 2. Registration No. | : 17221284011025 |
| 3. Discipline | : English |
| 4. Gender | : Male |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : INDIAN |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : DR D JOCKIM |
| 10. Name of the Co-Supervisor | : NIL |
| 11. Mode | : PART TIME INTERNAL |
| 12. Research Centre | : St. Xavier's College (Autonomous), Palayamkottai |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : SOCIO - CULTURAL DISCOURSE IN J. M. COETZEE SELECT NOVELS |
| 15. Doctoral Committee Members Details | : 1. DR K HEMA
Assistant Professor, Department of English, Sadakathullah Appa College
Mobile No. : 9486379448, Email ID : hemaselvan@gmail.com
2. DR V CHRISTOPHER RAMESH
Assistant Professor, Department of English, Govt. Arts College, Melur.
Mobile No. : 9443008570, Email ID :
vcbriopherramesh@gmail.com |

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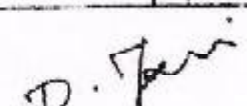
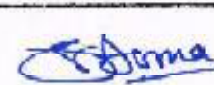
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10/8/17
 DIRECTOR



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	Dr. K. Hema Assistant Prof. of English Staff ID : ATEN04
2	Name of the Collaborating Faculty with Designation	Dr. D. Jockim Assistant Prof. of English
3	Name of the Collaborating Organization	St. Xavier's College Palayamkottai, Tirunelveli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	DC Member for C. Mothilal Dinesh Reg. No : 17221284011034
6	Period of Collaboration	From : 10.8.2017 To : 10.5.2021
7	Financial Involvement (if any)	—
8	Proof Attached	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty Dr. D. JOCKIM Assistant Professor of English St. Xavier's College (Autonomous) Palayamkottai, Tirunelveli-2
		 Signature of the Faculty

Assistant Professor of English
St. Xavier's College (Autonomous)
Palayamkottai, Tirunelveli-2



DR. K. SENTHAMARAI KANNAN

DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

C MOTHILAL DINESH
 19-158, KASPA STREET
 PARAMANKURICHI
 Tamil Nadu, Thoothukudi, Pincode - 628213
 Mobile No. : 9842311681, Email ID : mothilaldinesh1992@gmail.com

Sir/Madam,

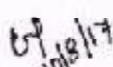
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
 Intimation - Reg

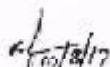
Ref: Counseling attended by the candidate.

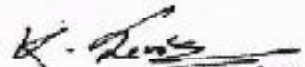
With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|---|--|
| 1. Name of the Scholar | : C MOTHILAL DINESH |
| 2. Registration No. | : 17221784011034 |
| 3. Discipline | : English |
| 4. Gender | : Male |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : Indian |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M,Phil |
| 9. Name of the Supervisor | : D JOCKIM |
| 10. Name of the Co-Supervisor | : NIL |
| 11. Mode | : PART TIME INTERNAL |
| 12. Research Centre | : St. Xavier's College (Autonomous), Palayamkottal |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : ECO-TERRORISM AND ECO-SCAM AN ECO-PSYCHOLOGICAL
STUDY OF CARL HIAASEN S SELECT NOVELS |
| 15. Doctoral Committee
Members Details | : 1. DR K HEMA
ASSISTANT PROFESSOR, SADAKATHULLAH APPA COLLEGE
Mobile No. : 9486379448, Email ID : hemaselvan@gmail.com
2. DR V CHRISTOPHER RAMESH
ASSISTANT PROFESSOR, GOVT. ARTS COLLEGE, MELUR,
MADURAI
Mobile No. : 9443008570, Email ID :
vchristopherramesh@gmail.com |


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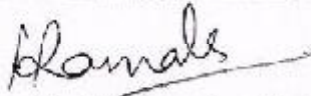
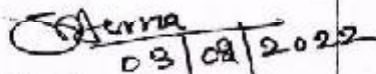

 10/8/17
 SUPDT


 10/8/17
 AR


 10/08/17
 DIRECTOR



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K. Hema Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	:	Dr. T. Ratha Jeyalakshmi Dean, Research & Development
3	Name of the Collaborating Organization	:	Sri Sarada College for Women Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Member, Editorial Board for the College Journal 'Pragnavani'
6	Period of Collaboration	:	From: June 2016 To: till date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes/No
Signature of Principal		Signature of the Collaborating Faculty	
			
PRINCIPAL		PRINCIPAL	
SRI SARADA COLLEGE FOR WOMEN		SRI SARADA COLLEGE FOR WOMEN	
(Autonomous)		(Autonomous)	
TIRUNELVELI - 627 011		TIRUNELVELI - 627 011	
		Signature of the Faculty	
		 03/08/2022	



Sadakathullah Appa College (Autonomous)

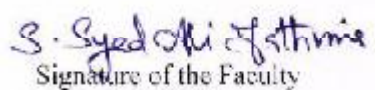
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr. S. Syed Ali Fathima Assistant Professor Department of Mathematics Sadakathullah Appa College, Tirunelveli-11 Staff ID: ATMA04
2	Name of the Collaborating Faculty with Designation	: Dr.K. Ali Assistant Professor Department of Mathematics The M.D.T Hindu College
3	Name of the Collaborating Organization	: The M.D.T Hindu College, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: DC Member – ROSEMATHY V. 18111072092002
6	Period of Collaboration	: From : 10.01.2018 To: Till Date
7	Financial Involvement (if any)	: No
8	Proof Attached	: Yes


Signature of Principal
With seal


Signature of the Collaborating Faculty
With seal

... ALLI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Mathematics,
The M.D.T. Hindu College,
TIRUNELVELI - 627 010.


Signature of the Faculty
With seal
S. Syed Ali Fathima
Assistant Professor of Mathematics,
Sadakathullah Appa College (Autonomous),
Rahmath Nagar, Tirunelveli - 027 011.

DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JANUARY2018

Date : January 10, 2018

Ph.D., Programme Commencement Order

To

ROSEMATHY Y

18D DIAMOND TOWER, METTU STREET

SINDHUPOONDURAI

Tamil Nadu, Thirunelveli, Pincode - 627001

Mobile No. : 9597485276, Email ID : ravimathy18@gmail.com

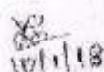
Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
 Intimation - Reg


Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|--|--|
| 1. Name of the Scholar | : ROSEMATHY Y |
| 2. Registration No. | : 18111072092002 |
| 3. Discipline | : Mathematics |
| 4. Gender | : Female |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : INDIAN |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : Dr. K. Ali |
| 10. Name of the Co-Supervisor | : NIL |
| 11. Mode | : FULL TIME |
| 12. Research Centre | : The M.D.T. Hindu College, Tirunelveli |
| 13. Date of Commencement | : 10.01.2018 |
| 14. Proposed Title | : A STUDY ON NEW TYPE OF CLOSED SETS IN TOPOLOGICAL SPACES |
| 15. Doctoral Committee Members Details | : 1. DR S SYED ALI FATHIMA
ASSISTANT PROFESSOR OF MATHEMATICS, S A COLLEGE, THIRUNELVELI.
Mobile No. : 9965337934, Email ID : syedalifarwma2014@gmail.com
2. DR K DASS
ASSISTANT PROFESSOR OF MATHEMATICS, THE M D T HINDU COLLEGE, THIRUNELVELI.
Mobile No. : 9003463438, Email ID : dassmdt@gmail.com |


 ASST


 SUPDT


 AR


 DIRECTOR



Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr. S. Syed Ali Fathima Assistant Professor Department of Mathematics Sadakathullah Appa College, Tirunelveli-11 Staff ID: ATMA04
2	Name of the Collaborating Faculty with Designation	: Dr.K. Alli Assistant Professor Department of Mathematics The M.D.T Hindu College
3	Name of the Collaborating Organization	: The M.D.T Hindu College, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: DC Member – D SARANYA-18111072092006
6	Period of Collaboration	: From : 10.01.2018 To: Till Date
7	Financial Involvement (if any)	: No
8	Proof Attached	: Yes

Signature of Principal
With seal

Signature of the Collaborating Faculty
With seal

Signature of the Faculty
With seal

Dr. K. ALLI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Mathematics,
The M.D.T Hindu College,
TIRUNELVELI - 627 010

S. Syed Ali Fathima
Assistant Professor of Mathematics,
Sadakathullah Appa College (Autonomous),
Rahmath Nagar, Tirunelveli - 627 011.



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JANUARY2018

Date : January 10, 2018

Ph.D., Programme Commencement Order

To

D SARANYA
145 NEDUVILLAI STREET, THISAIYANVILLAI
Tamil Nadu, Tirunelveli, Pincode - 627657
Mobile No. : 9655940469, Email ID : saranyasurairaj94@yahoo.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|---|---|
| 1. Name of the Scholar | : D SARANYA |
| 2. Registration No. | : 18111072092006 |
| 3. Discipline | : Mathematics |
| 4. Gender | : Female |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : INDIAN |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : Dr. K. Ali |
| 10. Name of the Co-Supervisor | : Nil |
| 11. Mode | : FULL TIME |
| 12. Research Centre | : The M.D.T. Hindu College, Tirunelveli |
| 13. Date of Commencement | : 10.01.2018 |
| 14. Proposed Title | : CONTRIBUTION TO NEW FORMS OF GENERALISED CLOSED SETS
IN TOPOLOGICAL SPACES |
| 15. Doctoral Committee
Members Details | : 1. DR. S SYED ALI FATHIMA
ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS,
SADAKATHULLAH APPA COLLEGE, TIRUNELVELI
Mobile No. : 9965337934, Email ID :
syedalifathima2014@gmail.com
2. DR. K DASS
ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS,
THE M.D.T. HINDU COLLEGE, TIRUNELVELI-10
Mobile No. : 9003463436, Email ID : dassmdt@gmail.com |

ASST
10/1/18
ASST

SUPDT
10/1/18
SUPDT

AR
10/1/18
AR

K. Senthamarai Kannan
10/1/18
DIRECTOR

Phone : 0462 - 2333741, 2336721, 9487999692, 9487907000, FAX: 2322973, Website : msuniv.ac.in



Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr. S. Syed Ali Fathima Assistant Professor Department of Mathematics Sadakathullah Appa College, Tirunelveli-11 Staff ID: ATMA04
2	Name of the Collaborating Faculty with Designation	: Dr.K. Senthamarai Kannan Senior Professor and Head Department of Statistics Manonmaniam Sundaranar University
3	Name of the Collaborating Organization	: Manonmaniam Sundaranar University, Tirunelveli-12
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: 1. Co Guide – M. Sulaiga Beevi - 17214012271151 2. Publications
6	Period of Collaboration	: From : 10.08.2017 To: 27.07.2021
7	Financial Involvement (if any)	: No
8	Proof Attached	: Yes

Signature of Principal
With seal

Signature of the Collaborating Faculty
With seal

Signature of the Faculty
With seal

Dr. K. SENTHAMARAI KANNAN
M.Sc., M.Phil., Ph.D (Stat.), M.Tech., Ph.D (CS&IT)
Senior Professor & Head, Dept. of Statistics
MANONMANIAM SUNDARANAR UNIVERSITY
Tirunelveli-627 012, Tamilnadu.

S. Syed Ali Fathima
Assistant Professor of Mathematics,
Sadakathullah Appa College (Autonomous),
Rahmath Nagar, Tirunelveli - 627 011.

Publications
To be made



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

SULAIGA BEEVI.M
885 H1 30th Street, Rahamath Nagar
Palayamkottai
Tamil Nadu, Thirunelveli, Pincode - 627002
Mobile No. : 9940163310, Email ID : ssulaiga@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|---|---|
| 1. Name of the Scholar | : SULAIGA BEEVI.M |
| 2. Registration No. | : 17214012271151 |
| 3. Discipline | : Inter Disciplinary |
| Inter Disciplinary Detail | : MATHEMATICS - STATISTICS |
| 4. Gender | : Male |
| 5. Social Category (Community) | : BCM |
| 6. Nationality | : INDIAN |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : Dr K SENTAMARAI KANNAN |
| 10. Name of the Co-Supervisor | : DR S SYED ALI FATHIMA |
| 11. Mode | : FULL TIME |
| 12. Research Centre | : Manonmaniam Sundaranar University, Tirunelveli. |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : FUZZY STOCHASTIC MODELING IN INDUSTRIAL APPLICATIONS |
| 15. Doctoral Committee
Members Details | : 1. DR A LOGANATHAN
Professor, Department of Statistics, Manonmaniam Sundaranar
University, Tirunelveli - 627 012.
Mobile No. : 9486634993, Email ID : aln_24@rediffmail.com
2. DR C VEJAYALAKSHMI
Professor, Mathematics Division, VIT University, Chennai.
Mobile No. : 9444889819, Email ID : Nil |

[Signature]
10/08/17
ASST

[Signature]
10/08/17
SUPDT

[Signature]
10/08/17
AR

[Signature]
10/08/17
DIRECTOR



3.7.1/ Collaborative Activities/2017-2018/9

Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr. S. Syed Ali Fathima Assistant Professor Department of Mathematics Sadakathullah Appa College, Tirunelveli-11 Staff ID: ATMA04
2	Name of the Collaborating Faculty with Designation	: Dr.K. Alli Assistant Professor Department of Mathematics The M.D.T Hindu College
3	Name of the Collaborating Organization	: The M.D.T Hindu College, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: DC Member – M. ARLINE JIYAMARY - 12564
6	Period of Collaboration	: From : 28.06.2017 To: Till Date
7	Financial Involvement (if any)	: No
8	Proof Attached	: Yes

Signature of Principal
With seal

Signature of the Collaborating Faculty
With seal

Dr. K. ALLI, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Mathematics,
The M.D.T Hindu College,
TIRUNELVELI - 627 010.

Signature of the Faculty

S. Syed Ali Fathima
Assistant Professor of Mathematics,
Sadakathullah Appa College (Autonomous),
Rahmath Nagar, Tirunelveli - 627 011.

MARCONMANIAM SUNDARANAR UNIVERSITY
TIRUNELVELI - 627 012, TAMIL NADU, INDIA
(REACCREDITED WITH B GRADE BY NAAC)

DR. K. SENTHAMARAI KANNAN
DIRECTOR (CENTRE FOR RESEARCH)

ABISHEKAPATTI,
TIRUNELVELI 627 012

MSU/Res/R/ Doctoral Committee/Jan. 2017

28.06.2017

- 1. Dr. K. All (Guide)- Convener
Asst. Professor of Mathematics,
The M.D. Hindu College
Tirunelveli
- 2. Dr. S. Syed Ali Fathima - Doctoral Committee Member
Asst. Professor of Mathematics,
Sodekarmullah Appa College,
Tirunelveli
- 3. Dr. R. Gowri - Doctoral Committee Member
Asst. Professor of Mathematics,
Govt. College for Women,
Kumthasoori

Sl. No: 1
I am by direction to inform that you are nominated as convener (default) Doctoral Committee member
Co-Guide member in respect of the scholar Ms. M. Arline Jayamary, Reg No. 12564.

You are requested to meet four times during the Ph.D programme of the scholar to decide the following

1. To approve the research proposal and prescribe the course work within six months
From the date of registration
2. To assess and monitor the quantum of work done and confirm the provisional
registration by the candidate after one year from the date of registration;
3. To approve the Pre-Ph.D presentation, approval and synopsis and panel of examiners
for adjudication of the thesis;
4. To consolidate and approve the adjudication reports for conduct of Ph.D viva-voce
examination.

(i) The Head of the Department of the University / Head of the Department of the
Research Centre (duly forwarded by the Principal of the Research Centre) shall
forward the Doctoral committee minutes (in the format enclosed) to the 2
(Research), However, the meetings of Doctoral Committee should be informed to
the Director (Research) with a copy to Head of the Department / Director of the
Centre well in advance.

Yours faithfully

[Signature]
DIRECTOR
[Date]

Encl: Profound
Copy to
Ms. M. Arline Jayamary - Candidate
220, Perumburam,
Sengulam, P.O.,
Tirunelveli - 627 152
M: 9751819531

Phoner: 0462-2113741, Mobile: 948799692, 9487927000, Fax: 0462-2221973, www.msuuniv.ac.in



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	NAME OF THE FACULTY WITH DESIGNATION, STAFF ID	:	Dr. N. MOHAMED RILWAN ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, SADAKATHULLAH APPA COLLEGE, TIRUNELVELI 627 011. ATMA05
2	NAME OF THE COLLABORATING FACULTY WITH DESIGNATION	:	Dr. M. P. SYEDALI NISAYA ASSISTANT PROFESSOR OF MATHEMATICS THE MDT HINDU COLLEGE, PETTAI, TIRUNELVELI 627 010
3	NAME OF THE COLLABORATING ORGANIZATION	:	THE MDT HINDU COLLEGE, PETTAI, TIRUNELVELI 627 010.
4	NATURE OF COLLABORATION (ACADEMIC / RESEARCH / FACULTY EXCHANGE / STUDENT EXCHANGE / PROJECT / INTERNSHIP / ON-THE JOB TRAINING)	:	RESEARCH
5	NATURE / DETAILS OF OUTCOME (GUEST LECTURE / DC MEMBER / CO-GUIDE / PROJECT REPORTS / OTHER REPORTS/PUBLICATIONS)	:	DOCTORAL COMMITTEE MEMBER FOR THE SCHOLAR "RAMA LAKSHMI A"
6	PERIOD OF COLLABORATION	:	JAN 2018 TO TILL
7	FINANCIAL INVOLVEMENT (IF ANY)	:	-
8	PROOF ATTACHED	:	YES

SIGNATURE OF PRINCIPAL

SIGNATURE OF THE COLLABORATING FACULTY

SIGNATURE OF FACULTY

Dr. M. P. SYEDALI NISAYA, M.Sc., M.Phil., Ph.D.
Assistant Professor of Mathematics
The M.D.T. Hindu College,
Tirunelveli - 627 010.

Dr. N. MOHAMED RILWAN, M.Sc., Ph.D.
Assistant Professor
Department of Mathematics
Sadakathullah Appa College (Autonomous)
Tirunelveli - 627 011.



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JANUARY2018

Date : January 10, 2018

Ph.D., Programme Commencement Order

To

RAMA LAKSHMI A
3,krishnan kovil south street , Palayam kottai
Tirunelveli
Tamil Nadu, Thirunelveli, Pincode - 627002
Mobile No. : 9095254552, Email ID : quruj.ac@gmail.com

Sir/Madam,

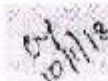
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counselling attended by the cand date.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

1. Name of the Scholar : RAMA LAKSHMI A
2. Registration No. : 18121072092001
3. Discipline : Mathematics
4. Gender : Female
5. Social Category (Community) : BC
6. Nationality : Indian
7. PWD Status : Not Applicable
8. Admission Based On : M.Phil
9. Name of the Supervisor : Dr. M. P. Syecali Nisaya
10. Name of the Co-Supervisor : NIL
11. Mode : PART TIME INTERNAL
12. Research Centre : The M.D.T. Hindu College, Tirunelveli
13. Date of Commencement : 10.01.2018
14. Proposed Title : A Study on Graph Labeling
15. Doctoral Committee Members Details :
 1. DR R KALA
PROFESSOR OF MATHEMATICS, M S UNIVERSITY,
TIRUNELVELI-12
Mobile No. : 9486902837, Email ID : karthpyi91@yahoo.co.in
 2. DR N MOHAMED RILWAN
ASSISTANT PROFESSOR OF MATHEMATICS, SADAKATHULLAH
APPA COLLEGE, TIRUNELVELI-11
Mobile No. : 7867946099, Email ID : rilwan2020@gmail.com


ASST


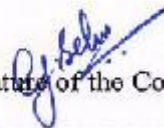
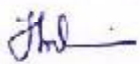

SUPDT


AR


10/01/18
DIRECTOR



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	P. JESLIN KANAGA INBA Assistant Professor of Chemistry ATCHO4
2	Name of the Collaborating Faculty with Designation	:	G. GNANASELVI Assistant Professor & Head Department of S & H
3	Name of the Collaborating Organization	:	Department of S & H JACSI college of Engg, Nazareth.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From: 2017 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	



JAYARAJ ANNAPACKIAM C.S.I. COLLEGE OF ENGINEERING

MARGOSCHIS NAGAR, NAZARETH - 628 617, THOOTHUKUDI DISTRICT.

(Approved by AICTE, New Delhi and Affiliated to Anna University)

Dr. S. JEYAKUMAR
Principal

Phone : 04639 - 279906, 278513
Fax : 04639 - 279905
email : jacsiprincipalce@gmail.com
Website : www.jacsice.in

JACSICE/E/2017

27.10.2017

To

Dr. P. Jeslin Kanaga Inba
AP / Chemistry
Sadakathullah Appa College,
Tirunelveli.

Respected Madam,

We express our hearty thanks to you for having accepted our Invitation and presence as the Chief Guest in our S & H department Association inaugural function IAAFEST on 27.10.17.

We appreciate you for your inaugural speech "Guest Lecture in Marching towards Success" and we feel that your Message was very useful to our students.

We also thank the Management of your Institution for their assistance to make this program a successful one.

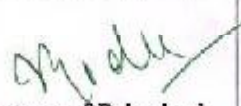
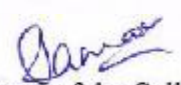
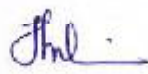


Warm regards,

PRINCIPAL



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	P. JESLIN KANAGA INBA
			Assistant Professor of Chemistry
			ATCH04
2	Name of the Collaborating Faculty with Designation	:	Dr. V. RAMA
			Head & Associate Professor of Chemistry
3	Name of the Collaborating Organization	:	Department of Chemistry
			Sarah Tucker College
			Tirunelveli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	BOS member
6	Period of Collaboration	:	From : 2018 To: Till date
7	Financial Involvement (if any)	:	No
8	Proof Attached	:	Yes / No
 Signature of Principal PRINCIPAL SARAH TUCKER COLLEGE (AUTONOMOUS) TIRUNELVELI - 627 007.		 Signature of the Collaborating Faculty Professor & Head Dept. of Chemistry, Sarah Tucker College, Tirunelveli - 627 007.	
		 Signature of the Faculty	



TINNEVELLY DIOCESAN TRUST ASSOCIATION

SARAH TUCKER COLLEGE (AUTONOMOUS), TIRUNELVELI

Tamilnadu, India - 627 007

Nationally Assessed and Re-accredited with 'A' Grade

Estd - 1995



Dr Usha Godwin MSc PhD

PRINCIPAL

☎ 0462 - 2530946

E-mail: sarahucker95@rediffmail.com

13.03.2018

To

Dr. JESLIN KANAGA INBA
ASSISTANT Professor of Chemistry
Department of Chemistry
SADAKATHULLA APPA COLLEGE,
Tirunelvel 11

Dear Sir/Madam,

We are happy to inform you that you have been appointed as University Nominee/Subject Expert/Alumnac Representative/Industrialist for the Board of Studies meeting of the CHEMISTRY Department in our college. Kindly make it convenient to attend the meeting on 20th March 2018 at 2.00 PM

With Regards

Yours Sincerely

PRINCIPAL

SARAH TUCKER COLLEGE
(AUTONOMOUS)
TIRUNELVELI - 627 007



TEMPERATURE-DEPENDENT VOLUMETRIC AND VISCOMETRIC PROPERTIES OF L-PHENYLALANINE IN AQUEOUS METFORMIN HYDROCHLORIDE SOLUTIONS

Rajagopal K.¹, Shailajha S.², Mohamed Roshan M.^{*3} and Roy Richi Renold G.⁴

¹Professor of Physics (Rtd.), Government College of Engineering, Tirunelveli, Tamil Nadu, India.

²Assistant Professor of Physics, Manonmaniam Sundaranar University, Tirunelveli, India.

³Assistant Professor of Physics, Sadakathullah Appa College, Tirunelveli, Tamil Nadu, India.

⁴Research Scholar, M.S. University, Assistant Professor of Physics, V V College of Engineering, Tisaiyanvilai, Tirunelveli, Tamil Nadu, India.

Article Received on
16 Sep. 2017.

Revised on 06 Oct. 2017,
Accepted on 26 Oct. 2017

DOI: 10.20959/wjpr.201714.10215

*Corresponding Author

Mohamed Roshan M.

Assistant Professor of
Physics, Sadakathullah Appa
College, Tirunelveli, Tamil
Nadu, India.

ABSTRACT



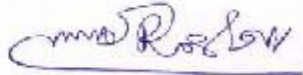
Densities and viscosities of L-Phenylalanine in (0.05, 0.10, 0.15 and 0.20) mol kg⁻¹ aqueous solutions of Metformin-HCl have been measured at T = (298.15, 303.15, 308.15, 313.15 and 318.15) K and experimental pressure p = 0.1 MPa to study nature of the interactions of Phenylalanine with aqueous metformin hydrochloride (Metformin-HCl) as a function of temperature. Several thermodynamical parameters such as partial molal volume V_{ϕ} , standard partial molal volume V_{ϕ}° , transfer volume ΔV_{ϕ}° , hydration number n_{H_2O} , the second derivative of infinite dilution of partial molal volume with respect to temperature, viz., $\partial^2 V_{\phi}^{\circ} / \partial T^2$, viscosity B-coefficient, transfer B-

coefficient ΔB , variation of B with temperature (dB/dT), free energies of activation of viscous flow $\Delta\mu_1^{\ddagger}$ and $\Delta\mu_2^{\ddagger}$ per mole of solvent and solute are reported. The dependence of these parameters upon concentration and temperature clearly show the presence of strong solute - cosolute interactions. Furthermore the pair and triplet interaction coefficient have also been calculated and reported.

KEYWORDS: Standard partial molal volume, transfer volume, hydration number, viscosity B-coefficient, activation energy, L-Phenylalanine, Metformin hydrochloride.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. M. Mohamed Roshan Assistant Professor, Department of Physics, Sadakathullah Appa College Staff ID – ATPH04
2	Name of the Collaborating Faculty with Designation	:	Dr. K. Rajagopal Professor and Head, Department of Physics, Government College of Engineering, Tirunelveli – 627 007.
3	Name of the Collaborating Organization	:	Government College of Engineering, Tirunelveli 627 007.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Publication
6	Period of Collaboration	:	From : 2016 To: 2019
7	Financial Involvement (if any)	:	
8	Proof Attached	:	Yes
Signature of Principal		Signature of the Collaborating Faculty	
		 Dr. K. RAJAGOPAL M.Sc., Ph.D PROFESSOR AND HEAD DEPARTMENT OF PHYSICS GOVERNMENT COLLEGE OF ENGINEERING TIRUNELVELI - 627 007, TAMILNADU, INDIA	
		Signature of the Faculty	
		 Dr. M. Mohamed Roshan, M.Sc., M.Phil., Ph.D. Assistant Professor Department of Physics Sadakathullah Appa College	



VISCOSITIES OF L - PROLINE AND L- THREONINE IN (0.05, 0.10, 0.15, AND 0.20)
MOL.KG⁻¹ AQUEOUS METFORMIN HYDROCHLORIDE SOLUTIONS AT
DIFFERENT TEMPERATURES

Rajagopal K.¹, Shalajha S.², Mohamed Roshan M.^{3*} and Roy Richi Renold G.⁴

¹Professor of Physics (Rtd.), Government College of Engineering, Tirunelveli, Tamil Nadu, India.

²Assistant Professor of Physics, Manomaniam Sundaranar University, Tirunelveli, India

³Assistant Professor of Physics, Sadakathullah Appa College, Tirunelveli, Tamil Nadu, India.

⁴Research Scholar, M.S. University, Assistant Professor of Physics, V V College of Engineering, Tiruvananthapuram, Tirunelveli, Tamil Nadu, India.

*Corresponding Author: Mohamed Roshan M.

Assistant Professor of Physics, Sadakathullah Appa College, Tirunelveli, Tamil Nadu, India.

Article Received on 31/08/2017

Article Revised on 21/09/2017

Article Accepted on 11/10/2017

ABSTRACT

viscosity (η) measurements of amino acids L-Proline and L-Threonine in aqueous solutions of metformin hydrochloride (an antidiabetic drug) (0.05, 0.10, 0.15 and 0.20 mol.kg⁻¹) have been carried out in the concentration range (0.025–0.15 mol.kg⁻¹) at 298.15, 303.15, 308.15, 313.15 and 318.15 K. Viscosity B-coefficients of Jones-Dole equation, B-coefficients transfer (ΔB), temperature dependent of B-coefficient, free energy of activation per mole of solvent ($\Delta\mu_1^{*s}$) and solute ($\Delta\mu_2^{*s}$) are estimated using viscosity data. Our study concludes the existence of strong solute solvent interaction in the studied systems. Furthermore, structure making and breaking behaviour of both amino acids have also been assessed in aqueous metformin hydrochloride solutions. The thermodynamics of viscous flow has also been discussed.

KEYWORDS: L-proline, L-threonine, Metformin-Hydrochloride, B-coefficients, Free energy of activation per mole of solvent ($\Delta\mu_1^{*s}$) and solute ($\Delta\mu_2^{*s}$).

INTRODUCTION

To understand the structure and function of proteins, it is essential to study the interactions responsible for stabilizing the native state of proteins in aqueous solutions. The study of these interactions provides an important insight into the conformational stability and unfolding behaviour of proteins. The study of these characteristics of proteins has proved quite challenging due to its complex structure and still remains a subject of extensive investigations.



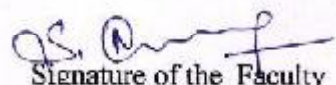
The thermodynamic properties of a completely unfolded protein system can be estimated by adding together the thermodynamic property contributions of the small structural units that constitute its molecular sequence. Therefore, protein model compounds such as amino acids and peptides, which are basic components of proteins, have been investigated in detail with respect to their thermodynamic properties in aqueous and mixed aqueous solutions.^[1-7] Recently, researchers have evoked a lot of interest on the model of proteins such as amino acids, peptides, amides and their derivatives.^[8-12]

Amino acids are the building blocks of proteins which can be used for studies expected to set impact on the solvation and conformation of proteins and often regarded as the ideal model for the studies of proteins. The thermodynamic properties and transport properties of amino acids in a variety of media can provide valuable information for the stability and denaturation of proteins, which could promote the progresses of medicine(drugs) and human science.^[13-15] Since the living organism is a complex system, it is of immense significance to study the thermodynamic properties of amino acids with functionally important biomolecule in aqueous drug solutions.^[16,17]

Among the various thermodynamic properties, attempts have been made to study the interaction of amino acids and peptides in aqueous drug solutions^[18] with viscometric properties as viscosity is an important parameter that affects the permeation of drug through biological membrane. The Viscosity B-coefficient is considered to be a measure of the effective hydrodynamic volume of the solvated ion/solute, and used to denote the order or disorder introduced by the ions or solute into the solvent structure.^[19] Viscosity B



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RESEARCH ARTICLE
**INVESTIGATIONS ON THE PROPERTIES OF TRIGLYCINE SULPHATE SINGLE CRYSTAL
ADMIXTURED WITH PERCHLORIC ACID**

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ABSTRACT

Triglycine sulphate crystal is a well known ferroelectric crystal which has ferroelectric domains at room temperature. The drawback of pure TGS crystal is its tendency to polarization reversal. To overcome this difficulty and to improve the ferroelectric properties of the TGS crystals, it has been doped with amino acids, metal ions etc. In the present work, growth, structural, mechanical, FTIR and optical characterization of TGS crystal admixed with Perchloric acid. Ferroelectric crystals of pure and Perchloric acid-admixed Tri Glycine Sulphate (TGS) single crystals were grown by slow evaporation technique. The cell parameters of the grown crystals are evaluated from single crystal XRD and the results are compared. UV-VIS spectra studies explain the transmission ability of the grown crystals in the visible range. FTIR studies are performed to identify the presence of various functional groups present in the grown crystals. The nonlinear optical (NLO) property of the grown crystal was confirmed by Kurtz-Perry powder technique and a study of its second harmonic generation efficiency in comparison with potassium dihydrogen phosphate KDP has been made. The mechanical strength of the crystal was estimated by Vickers hardness test.

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INTRODUCTION

Crystals of amino acids and their complexes can be considered for a variety of applications. Among amino acids, glycine ($\text{NH}_2\text{CH}_2\text{COOH}$) is the simplest amino acid and has normally three polymeric crystalline forms viz. α -glycine, β -glycine and γ -glycine (Sun *et al.*, 1999; Selvarajan *et al.*, 1992; Alexandru and Berbecaru, 2002; Balamurugan *et al.*, 2007; Krajewski and Brezowski, 1980; Newman and Rudzler, 1992). The least stable form β -glycine is related to the other two polymorphs. It is always obtained from a water-alcohol mixed solvent and can transform rapidly to the α -form in the presence of water or upon heating. The α -form is the metastable form at ambient temperature, which spontaneously crystallizes from water, or may be obtained by evaporation of aqueous solutions. Some of the glycine complexes in single crystalline forms have been grown and studied by many researchers (Moravec *et al.*, 1977; Banan *et al.*, 1989; Brezina and Havrankova, 1985; Moravec and Novontny, 1972; Ravi *et al.*, 1994; Lucia Rose *et al.*, 2011). When glycine combines with sulphuric acid in the molar ratio 3:1, Triglycine Sulphate (TGS) crystal is formed and it is a suitable material for developing detectors of infrared radiation and target faces in vidicons based on the pyroelectric effect. Doping crystals with various kinds of dopants influences the solubility, growth rate, morphology, structural,

electrical and other properties of the crystals (Arunmozhi *et al.*, 2000; Theresita Shanthi *et al.*, 2009; Kurtz and Perry, 1968; Dhanaraj *et al.*, 2008; Mary Linet *et al.*, 2011; Hameed *et al.*, 2000; Muralidharan *et al.*, 2002). Studies on various physical and chemical properties of undoped and divalent impurity doped TGS crystals have been reported in the literature (Berbecaru *et al.*, 2005; Mani *et al.*, 1988; Toshio Kikuta *et al.*, 2007; Balamurugan *et al.*, 2007; Krishnan *et al.*, 2009; Dhanaraj *et al.*, 2008). But there are no research papers found in the literature dealing with the properties of TGS crystals admixed with Perchloric acid (HClO_4). I report here for the first time the investigations on growth, structural, optical mechanical, and FTIR characterization of Tri glycine sulphate crystal admixed with Perchloric acid.

Experimental Procedure
Synthesis and solubility


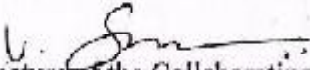
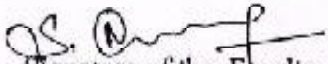
Triglycine sulphate (TGS) salt and Perchloric acid (HClO_4) were taken in 0.7: 0.3 molar ratio and the calculated reactants were dissolved in deionized water, stirred well, heated at 50 °C to get 30 mole % of Perchloric acid admixed TGS salt. This solution was heated and kept for slow evaporation to dryness at room temperature. The purity of the salt was improved by successive re crystallization process (Nazarath Begum *et al.*, 2013). Figure 1 shows that the solubility of Perchloric acid admixed TGS sample was estimated for seven different

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Studies on Optical and Mechanical Properties of Salicylic acid Admixed TGS Single Crystals

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Abstract— Ferro electric crystals of salicylic acid admixed TGS crystals were grown by slow evaporation solution growth method. The grown crystals were characterized using X-ray diffraction studies. Optical parameters like transmittance, absorbance, reflectance, optical absorption co-efficient, refractive index, extinction co-efficient, and band gap energy of the crystal were estimated from UV-Vis-NIR spectrum. The SHG efficiency was checked using Kurtz-Perry powder technique. Mechanical parameters such as work hardening coefficient, yield strength, elastic stiffness constant, fracture toughness and brittleness index were obtained using Vickers micro hardness studies.

Key Words-- Solution growth, UV-Vis-NIR spectrum, SHG, Vickers micro hardness

I. INTRODUCTION

Triglycine sulfate (TGS) crystal is an interesting ferroelectric and pyroelectric material, which exhibits strong absorbing ability in the most part of infrared region. Due to this property, it is used for the fabrication of infrared detectors and pyroelectric vidicon tubes operating at room temperature. It also finds applications in the fabrication of capacitors, transducers and sensors. TGS crystal shows a typical second-order ferroelectric phase transition at the Curie point $T_c=49^\circ\text{C}$. Below the T_c , TGS possesses the polar point symmetry of group 2 of the monoclinic system, spontaneous polarization P_s arises along the b-axis and above T_c , it possesses the non-polar point group $2/m$ of the monoclinic system [1-3]. TGS crystal has some disadvantages over doped TGS crystals such as i) the ferroelectric domains possess high mobility at room temperature therefore it is necessary to stabilize domains, ii) easy depolarization by electrical, mechanical and thermal means and iii) microbial contamination with time during the growth. In order to overcome these disadvantages, variety of dopants such as amino acids, organic and inorganic compounds have been introduced in TGS crystals to achieve effective internal bias to stabilize the domains and to get desired pyroelectric and ferroelectric properties [4-7]. In this work, glycine, sulfuric acid and salicylic acid were mixed to form Triglycine Sulpho- Salicylate (TGSS) sample. The aim of this paper to report and discuss the mechanical and optical properties of Triglycine sulfate crystals admixed with salicylic acid (TGSS).

II. SYNTHESIS, SOLUBILITY AND GROWTH

Salicylic acid admixed TGS (TGSS) salt was synthesized by dis-solving high purity glycine, sulfuric acid and salicylic acid in the molar ratio 3:0.7:0.3 in de-ionized water and the re-crystallization was carried out to improve the purity of the synthesized Triglycine sulpho-salicylate (TGSS) salt. Solubility study was performed by gravimetric method [8] and Fig. 1 shows the solubility curve for TGSS salt. From the result, it is observed that the solubility of TGSS sample in water increases linearly with temperature, exhibiting a high solubility gradient and positive temperature coefficient of

solubility. Growth of TGSS crystal Solution method with slow evaporation technique was adopted to grow crystals of the synthesized TGSS salt. In accordance with solubility data, the saturated solution of TGSS sample was prepared and constantly stirred for about 3 h using a magnetic stirrer and was filtered using 4 micro Whatmann filter paper. Then the filtered solution was taken in a beaker and covered by perforated cover for controlled evaporation. The seed crystals of TGSS were obtained by spontaneous nucleation. The supersaturated solution of TGSS was carefully transferred into another glass beaker and kept at 30°C in the constant temperature bath. Two or three good quality seed crystals of TGSS were placed in the supersaturated solution and the solution was allowed to evaporate the solvent slowly into atmosphere. A typical single crystal with size $12\text{ mm} \times 10\text{ mm} \times 6\text{ mm}$ was obtained within a period of 45 days. A grown crystal is shown in Fig. 2 and the grown crystals are found to be stable, non-hygroscopic at ambient temperature, transparent and colorless.

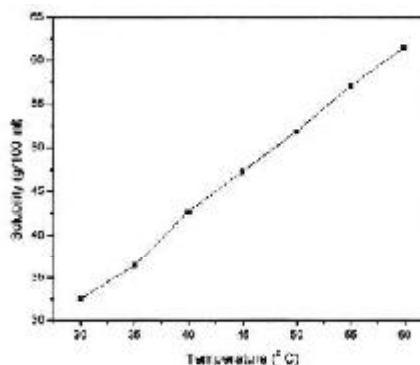


Figure 1: Solubility curve for TGS crystal admixed with salicylic acid

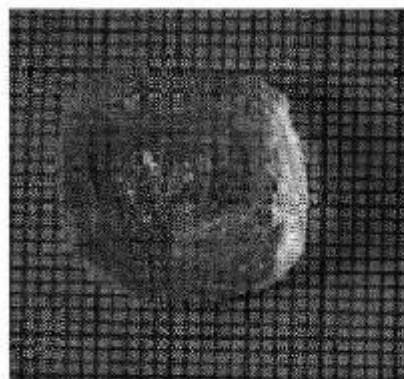

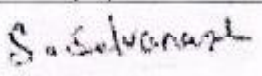
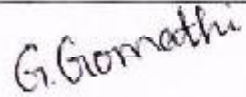


Figure 2: The Photograph of TGS crystal admixed with salicylic acid

III. SINGLE CRYSTAL XRD ANALYSIS



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Dr.Mrs.P.JEYANTHI M.Sc., M.Phil., Ph.D., P.G.D.C.A.,

PRINCIPAL

Date :

06.09.2017

CERTIFICATE

This is to certify that **Mrs. G. Gomathi, M.C.A.,M.Phil.,**
Assistant Professor, Department of Information Technology,
Sadakathullah Appa College, Tirunelveli has delivered a guest lecture on
the topic "**Internet of Things**" in the Computer Science Association
Meeting held in our college on 06.09.2017.


Principal

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Bifurcations and chaos in two-coupled periodically driven four-well Duffing-van der Pol oscillators



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ABSTRACT

Bifurcations and chaos in two-coupled periodically driven four-well Duffing-van der Pol (DVP) oscillators are numerically investigated as a function of the strength (β) of nonlinear coupling and the amplitude (A) of the periodic driving force. The influence of weak coupling ($\beta \ll 1$) and strong coupling ($\beta \gg 1$) is analyzed with and without the external periodic force. For strong coupling ($\beta \gg 1$), the system shows completely chaotic behaviour but for weak coupling the system exhibits period-doubling and period-tripling routes to chaos, quasiperiodic orbit, reverse period-doubling bifurcation, periodic windows, chaotic orbit and intermittent behaviours for specific set of values of the parameters. The effect of phase shift (ϕ) of the system is also analyzed. Numerical results are demonstrated by constructing the bifurcation diagram, phase portrait and Poincaré map.

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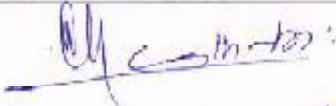
1. Introduction

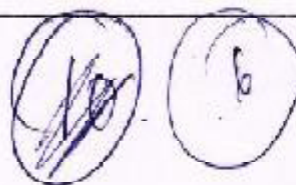
Recently a great deal of interest has been shown in research on coupled nonlinear oscillators under the influence of applied periodic force along with the presence of nonlinear coupling. A number of studies have been carried out to quantify the effect of nonlinear coupling and external force in coupled nonlinear oscillators and many fascinating phenomena were observed. Particularly, the occurrence of hyperchaos [1–3], migration control [4], bifurcation structure [5–7], resonance behaviour and jump phenomenon [8], basin structure [9], chaotic beats [10], vibrational and stochastic resonances [11–13], symmetry breaking bifurcations [14], double auto-resonance [15], effect of coupling on controlling and synchronization of chaos [16–18], mode interaction [19] and scaling features of multi-mode motions [20] have been reported. Analytical techniques such as multiple scale perturbation theory, Melnikov method and Painlevé analysis can be used to study nonlinear resonances, homoclinic bifurcations and the solution for the integrability choices of two-coupled nonlinear oscillators. For example, Painlevé analysis is used to identify the analytical solution of integrable choices of two-coupled Duffing oscillators [21,22] and Melnikov method is used to study the occurrence of horseshoe chaos in two-coupled Duffing oscillators [23]. Method of multiple scales is used to study the occurrence of hysteresis and nonlinear resonances in two-coupled nonlinear

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COEXISTENCE OF MULTIPLE ATTRACTORS, HYSTERESIS, AND VIBRATIONAL RESONANCE IN THE CLASSICAL MORSE OSCILLATOR DRIVEN BY AN AMPLITUDE MODULATED SIGNAL

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We consider the classical Morse oscillator driven by an amplitude modulated signal with two widely different frequencies ω and Ω , where $\Omega \gg \omega$. The dynamics of such oscillator is numerically studied for a specific set of parameters. We show the occurrence of coexistence of several period- T orbits, bifurcations of them, and hysteresis and vibrational resonance phenomena. We characterize the periodic and chaotic orbits, hysteresis, and vibrational resonance with the use of the bifurcation diagram and response amplitude.

Keywords: classical Morse oscillator, coexistence of multiple attractors, hysteresis, vibrational resonance, amplitude modulated signal.

1. Introduction

In this paper, we consider the damped classical Morse oscillator. Under the excitation by an AM signal, it is described by the equation

$$\ddot{x} + d\dot{x} + \frac{dV(x)}{dx} = (f + 2g \cos \Omega t) \sin \omega t, \quad (1)$$

where

$$V(x) = \frac{1}{2\alpha} \beta e^{-\alpha x} (e^{-\alpha x} - 2) \quad (2)$$

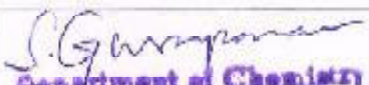
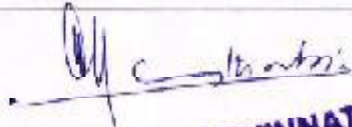
is the Morse potential [1, 2]. Here, β is the dissociation energy, α is the range parameter, d is the damping coefficient, f is the unmodulated carrier amplitude, $2g$ is the degree of modulation, Ω and ω are the two frequencies of the force with $\Omega \gg \omega$. Figure 1

depicts the form of the Morse potential for three different values of β , namely $\beta = 2.0, 1.0, 0.5$, and for $\alpha = 1$. The potential $V(x)$ has one local minimum at $x = 0$ and $V(x) \rightarrow \infty$ as $x \rightarrow -\infty$, while it becomes zero as $x \rightarrow \infty$. The Morse potential is widely used to provide an approximate potential energy function for diatomic molecules and to describe the potential energy surface along a bond stretching direction in polyatomic molecules [1, 2].

The Morse oscillator is the most prominent example of an anharmonic oscillator that has found wide applications. The driven Morse oscillator without damping ($d = 0$) is characterized by an equation frequently used in theoretical chemistry to describe the photodissociation of molecules [3, 4]. The damped and driven Morse oscillator (Eq. (1)) can serve as a rough model for the interatomic potential and fitting the vibrational spectra of diatomic molecules. It is also used to describe the infrared multiphoton exci-

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Effect of frequency modulated signal on chaotic motion in brusselator chemical reaction

S Kavitha, S Guruparan, B Ravindran Durai Nayagam and V Chinnathambi

I F = 0.065

Abstract

The various dynamical behaviours of the Brusselator chemical reaction and the effect of frequency modulated signal acted on the reaction as a chaotic oscillator has been investigated. We considered both narrow band frequency modulated (NBFM) and wide band frequency modulated (WBFM) signals to study the dynamics of the system. A variety of features such as different routes to chaos, periodic windows, reverse period-doubling bifurcation, chaotic orbit, and periodic-bubbles are found to occur due to the applied signal. The numerical results are substantiated by bifurcation diagram, phase portrait and Poincare map.

Keywords: brusselator chemical reaction, frequency modulated signal, periodic bubbles, reverse periodic orbit, chaos

1. Introduction

Nonlinear chemical systems are, in general, prone to exhibit an extraordinarily rich spectrum of dynamical behaviours^[1-4]. Recent studies have shown that the influence of different kinds of additional perturbations and external forcing^[5-10] on these systems is considerable as they alter the dynamical behaviours drastically. The Brusselator is one of the simplest model in nonlinear chemical system. This model was first proposed by Prigogine *et al.*^[11]. It is characterized by the equation,



Where A and B are constant components, D and E are products and X and Y are the two components variable in time and space. In recent years many researchers studied the dynamics of Eq. (1) under the excitation of external periodic forces^[12-21]. The dynamics of the Brusselator chemical reaction can be described by a system of two ordinary differential equations. In our present work, we numerically analyse the effect of NBFM and WBFM signal on chaotic motion in the Brusselator chemical system. In dimensionless form, the equation of motion of the Brusselator chemical reaction with NBFM signal is given by

$$\begin{array}{l}
 \dot{x} = a - (b+1)x + x^2 y + F(\cos \omega t - G \sin \Omega t \sin \omega t) \\
 \dot{y} = bx - x^2 y
 \end{array} \quad (2)$$

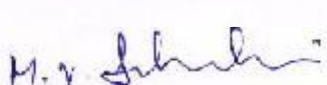
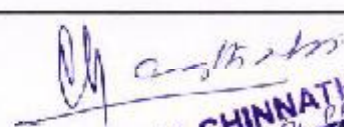
and with WBFM signal is given by

$$\begin{array}{l}
 \dot{x} = a - (b+1)x + x^2 y + F \sin(\omega t + G \cos \Omega t) \\
 \dot{y} = bx - x^2 y,
 \end{array} \quad (3)$$

where a and b are constants with $a, b > 0$, x and y represent the dimensionless concentration of two reactants, F is the unmodulated carrier amplitude, G is the modulation index, ω and Ω

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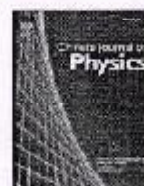
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9



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Analytical estimates of the effect of amplitude modulated signal in nonlinearly damped Duffing-vander Pol oscillator



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ABSTRACT

The effect of amplitude modulated (AM) signal on horseshoe chaos is studied both analytically and numerically in nonlinearly damped Duffing-vander Pol (DVP) oscillator. We assume the nonlinear damping term is proportional to the power of velocity (\dot{x}) in the form $k|\dot{x}|^p$. Using the Melnikov analytical method, the analytical threshold condition for the prediction of onset of horseshoe chaos is obtained. Melnikov threshold curves are drawn in different external parameters space. Our results show that as the damping exponent p increases from a small value, the threshold value for the onset of horseshoe is decreased. The analytical results are verified by numerical simulations using the computation of stable and unstable manifolds of saddle, measuring the time elapsed between two successive transverse intersections, bifurcation diagram, maximal Lyapunov exponent, phase portrait and Poincaré map.

1. Introduction

In recent years much interest has been focussed on the nonlinear damping in certain nonlinear oscillators under the influence of applied periodic forces. For example, Fadovan et al. [1] studied the nonlinear vibration of fractionally damped Duffing equation. Sethu et al. [2] analysed the chaotic dynamics of the fractionally damped Duffing equation. Analysis of the simple harmonic oscillator with fractional damping has been studied in detail by Mickers et al. [3]. In the paper by Gottlieb [4] has analysed the frequencies of certain nonlinear oscillators with fractional power non-linearities. The effect of damping strength and the shape of four different periodic forces on nonescape dynamics in Duffing oscillator with double-hump potential is studied by Ravichandran et al. [5]. Vibrations of certain nonlinear oscillators with nonlinear damping is studied by Trueba et al. [6]. The dynamics of nonlinear oscillator with strong quadratic damping force is analysed in ref. [7]. The effects of variation in nonlinear damping coefficients on the parametric vibration of a cantilever beam with a lumped mass is studied by Silva et al. [8]. The behaviour of a nonlinearly damped Duffing oscillator with a dissipative term proportional to the power of velocity is analysed by Baltanas et al. [9]. Ravindra et al. [10,11] discussed the stability analysis and the role of nonlinear dissipation in nonlinearly damped Duffing oscillator. In the paper by Elliott et al. [12] presented the variety of mechanisms that give rise to nonlinear damping and their effects. Xie et al. [13] investigated the periodic solutions and bifurcation behaviour in the parametrically nonlinearly damped two well Duffing equation. In a very

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Strong dominating sets and Strong Domination Polynomial of Complete Graphs

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Abstract

Let $G = (V, E)$ be a simple graph. A set $S \subseteq V$ is called a dominating set if every vertex $v \in V$ is either a member of S or adjacent to a member of S . A set $S \subseteq V$ is a strong dominating set of G if for every $u \in V - S$, there exists a $v \in S$ such that $uv \in E$ and $\deg(u) \leq \deg(v)$. Let K_m be complete graph with order m . Let $Sd(K_m^j)$ be the family of strong dominating sets of a complete graph K_m with the number of elements in the set j , and let $Sd(K_m, j) = |Sd(K_m^j)|$. In this paper, we establish K_m and obtain a iterative formula for $Sd(K_m, j)$. Using this iterative formula, we consider the polynomial $SD(K_m, x) = \sum_{j=1}^m Sd(K_m, j) x^j$, which we call strong domination polynomial of complete graphs and obtain some examples of this polynomial.

1 Introduction

Let $G = (V, E)$ be a simple graph of order $|V| = m$. A set $S \subseteq V$ is called a dominating set if every vertex $v \in V$ is either a member of S or adjacent to a member of S . A set $S \subseteq V$ is a strong dominating set of G if for every $u \in V - S$, there $v \in S$ such that $uv \in E$ and $\deg(u) \leq \deg(v)$. The minimum cardinality of strong dominating set is called minimum strong domination number and is denoted by $\gamma_{sd}(G)$. Alkhani and Peng found the dominating sets and domination polynomial of cycles and certain graphs [2], [3]. Abdul Jabil M. Khalaf and Sahib Shayyal Kahat found the dominating sets and domination polynomial of complete graph with missing edges [1]. Gehet, Khalf and Hasni found the dominating set and domination polynomial of stars and wheels [4] [5]. Let H_m be a graph with order m and let H_m^j be the family of dominating sets of a graph H_m with the number of elements in the set

j and let $d(H_m, j) = |H_m^j|$. We call the polynomial $D(H_m, x) = \sum_{j=1}^m d(H_m, j) x^j$, the domination

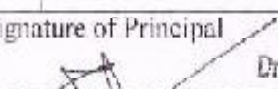
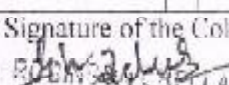
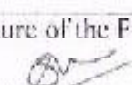
polynomial of graph G [3]. Let K_m^j be the family of strong dominating sets of a complete graph K_m with the number of elements in the set j and let $Sd(K_m, j) = |K_m^j|$. We call the polynomial

$SD(K_m, x) = \sum_{j=1}^m Sd(K_m, j) x^j$, the strong domination polynomial of complete graph. In the next section

we establish the families of strong dominating sets of K_m with the number of elements in the set j by the families of strong dominating sets of K_{m-1} with number of elements j and $j - 1$. We explore the strong domination polynomial of complete graphs in section 3.



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		Signature of the Faculty 

Strong Domination Polynomial of Wheel Graph

S. Angelin Kavitha Raj¹ and Dr. S. Robinson Chelladurai²

Abstract

Let $G = (V, E)$ be a simple graph. A set $S \subseteq V$ is called as a dominating set if every vertex $v \in V$ is either a member of S or adjacent to a member of S . A set $S \subseteq V$ is a strong dominating set of G if for every $u \in V - S$, there exists a $v \in S$ such that $uv \in E$ and $\deg(u) \leq \deg(v)$. Let W_m be a wheel graph with order m . Let $Sd(W_m^j)$ be the family of strong dominating sets of a wheel graph W_m with the number of elements in the set j , and let $Sd(W_m, j) = |Sd(W_m^j)|$. In the paper, we establish W_m and obtain a iterative formula for $Sd(W_m, j)$. Using this iterative formula, we consider the polynomial $SD(W_m, x) = \sum_{j=\gamma_{sd}(W_m)}^m Sd(W_m, j) x^j$, we call strong domination polynomial of wheel graphs and obtain some examples of this polynomial.

Introduction

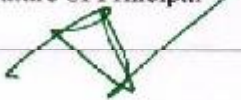

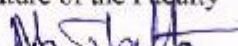
Let, $G = (V, E)$ be a simple graph of order $|V| = m$. A set $S \subseteq V$ is called a dominating set if every vertex $v \in V$ is either a member of S or adjacent to a member of S . A set $S \subseteq V$ is a strong dominating set of G if for every $u \in V - S$ there $v \in S$ such that $uv \in E$ and $\deg(u) \leq \deg(v)$. The minimum cardinality of strong dominating set is called minimum strong domination number and is denoted by $\gamma_{sd}(G)$. Sahib St. Kahat, Abdul Jalil M. Khalaf and Roslan Hasni found the dominating sets and domination polynomial of wheels [1]. Abdul Jalil M. Khalaf and Sahib Shaggal Kahat found the domination sets and domination polynomial of complete graph with missing edges [2]. Alikhani and Peng found the dominating sets and domination polynomial of cycles and certain graphs [3], [4]. Gehet, Khalaf and Hasni found the dominating set and domination polynomial of stars [5]. Let H_m be a graph with order m and let H_m^j be the family of dominating sets of a graph H_m with the number of elements in the set j and let $d(H_m, j) = |H_m^j|$. We call the polynomial $D(H_m, x) = \sum_{j=\gamma(H_m)}^m d(H_m, j) x^j$, the domination polynomial of graph H_m , [4]. Let W_m^j be the family of strong dominating sets of a wheel W_m with the number of elements in the set j and let $Sd(W_m, j) = |W_m^j|$. We call the

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5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Paper presentation- Publications. IJREB Preliminary Phytochemical Analysis of <i>Croton Caudatus</i> Var. <i>Caudatus</i> Geisler and <i>Pouzolzia wightii</i> Benn. From Papanasam, Tamil Nadu, South India.
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PRELIMINARY PHYTOCHEMICAL ANALYSIS OF *CROTON CAUDATUS* VAR. *CAUDATUS* GEISLER AND *POUZOLZIA WIGHTII* BENN. FROM PAPANASAM, TAMIL NADU, SOUTH INDIA

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ABSTRACT

The present study was aimed to investigate the phytochemical profile of medicinally important plants *Croton caudatus* var. *caudatus* Geisler and *Pouzolzia wightii* Benn. The dried powder of three different parts such as leaf, stem and root of *C. caudatus* var. *caudatus* and *P. wightii* was sequentially extracted with five different solvents namely petroleum ether, chloroform, acetone, ethyl acetate and ethyl alcohol using soxhlet apparatus. Among the five different solvent the qualitative phytochemical analysis revealed that ethanol extract of *C. caudatus* var. *caudatus* and *P. wightii* contained maximum number of metabolites. The results of the present study correlated the medicinal value of *C. caudatus* var. *caudatus* and *P. wightii* with the existence of different chemical metabolites like alkaloids, flavonoids, phenolic compounds, steroids, saponins, tannins and triterpenoids which have been reported to possess diverse medicinal properties.

Keywords: *Croton caudatus* var. *caudatus*, *Pouzolzia wightii*, Phytochemical profile

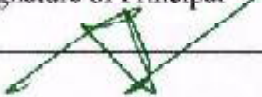

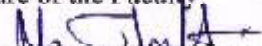
INTRODUCTION

Nature has been a source of medicinal values since times immemorial. The plant kingdom harbors on inexhaustible source of active ingredients in the management of many intractable diseases (Jigna and Sumitra, 2007). Most plant consists therapeutic agents are also a big source of information for a wide variety of chemical compounds which could be developed as drugs with precise selectivity (Manjulika *et*

al., 2014). Drugs from plants are easily available, less expensive, safe and more efficient and have fewer side effects. About 80% of world population depends on the herbal medicine. A large proportion of the rural population in developing countries depends on biodiversity for livelihood, nutrition and health (Cathrine and Prabavathi, 2011). Phytochemicals are naturally occurring in the medicinal plants, leaves, vegetables, stem, root



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5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other reports Paper Presentation Studies on Antiinflammatory Activity of <i>Pouzolzia wightii</i> Bean.
6	Period of Collaboration	:	From : 2017 To:2017
7	Financial Involvement (if any)	:	No
8	Proof Attached	:	Yes / No -
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NATIONAL SEMINAR ON PAIN MANAGEMENT THROUGH AYURVEDA SRI PARASAKTHI COLLEGE FOR WOMEN, COURTTALLAM.

(An Autonomous College of the Manonmaniam Sundaranar University)
Re-accredited With 'A' (3.38) by NAAC. Under the Management of H.R. & C.E. Dept

P.G. Department of Zoology & Research Centre

Certificate of appreciation

It is to certify that Dr. / Ms. M. SYED ALI FATHIMA, ASST. PROF IN BOTANY participated as a Guest Speaker / Chairperson / Rapporteur / Delegate. He / She has Presented Paper Studies on Anti-inflammatory activity of Pouzolzia wightii Benth in the NATIONAL SEMINAR organised by the LADAKATHULLAH APPA COLLEGE, TIRUNELVELI - II in the NATIONAL SEMINAR organised by the P.G. Department of Zoology & Research Centre, SRI PARASAKTHI COLLEGE FOR WOMEN, COURTTALLAM in collaboration with ALL INDIA AYURVEDA CONGRESS, Tamilnadu Chapter on 9th October, 2017.

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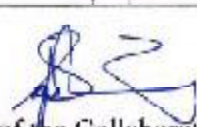

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8	Proof Attached	:	Yes
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Image Reconstruction using Compressive Sensing Techniques - A Survey

D. M. Annie Brighty Christilin¹, Dr. M. Safish Mary²

Abstract

Compressed Sensing (CS) are utilized for reconstructing the images with minimum quantity of instances at a lower rate. Nowadays, compressive sensing is essentially in the regions of computer visualization problems, signal processing, applied Maths, and optical engineering. In biomedical imaging, image reconstruction using CS is becoming very familiar because it is very effective for improving the image quality. The basic principle behind CS is that sparse signals that contains few number of non-zero coefficients that can be effectively exploited and stored in the basis which can be used to recover any lost signal. Once we construct a signal using CS, reconstruction is also needed. In the existing literature, the various types of reconstruction algorithms are used in the region of CS. This paper gives a review of CS techniques used by researchers for image reconstruction and also a detailed discussion about the applications of CS technique in image processing. The performance of varied forms of CS for image reconstruction is compared based on the final image quality with quantifying parameters such as high Signal-to-Noise Ratio (SNR).

Keywords: *compressed sensing, sparsity, signal processing, image reconstruction*

Introduction

The normal approach of reconstructing signals from processed data observes the Shannon sampling theorem, which notifies that the sampling rate should be the highest frequency twice (i.e., $f_s \geq 2f_m$). Many numbers of samples are required for this approach. Similarly, the basic theorem of linear algebra suggests that the number of measurements of a discrete finite-dimensional signal should be at least as large as its dimension in order to ensure reconstruction. In other words, the above two usual theorems are directly proportional to the number of instances accurately i.e., more sample means more accurate results. But nowadays the invention of a beautiful technique named as CS yields a new approach to reconstruct signals using a minimum number of instances at lower rate. CS also helps to solve the image processing and computer visualization problems.

CS is also known as compressed sensing, compressive sampling or sparse recovery. CS includes the math with statistical facts. CS offers a new fantastic way to manipulate multiple observations of the same field view, permitting us to reconstruct low-level details, which is impossible with standard compression methods. This paper contains the discussion about the existing literature, details of the methodology used in image reconstruction using CS and conclusion.

Literature Survey

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6	Period of Collaboration	: From : 2017 To: 2020
7	Financial Involvement (if any)	:
8	Proof Attached	: Yes
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Studies on Volumetric and Viscometric Properties of Valine in Aqueous Paracetamol Solution Over a Range of Temperature (298.15 to 318.15) K

Rajagopal. K¹, Roy Richi Renold. G², Mohamed Roshan. M³

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ABSTRACT

Density and viscosity values of valine at different concentrations (0.02, 0.04, 0.06, 0.08 and 0.1) M in aqueous paracetamol of concentration (0.025 - 0.1) M in steps of 0.025 M have been used to evaluate various important thermodynamic parameters like apparent molal volume, partial molal volume, the partial molal volume transfer, partial molal expansivity, isobaric thermal expansion coefficients, hydration number, viscosity B-coefficients, B-coefficient transfer, ratio of B-coefficient to partial molal volume, temperature derivative of B-coefficient, salivation number, free energy of activation of viscous flow per mole of solvent and per mole of solute and thermodynamic activation parameter of transfer from ground state to transition state. These thermodynamic parameters have been predicted in terms of solute-solute and solute-solvent interactions and structure making/breaking ability of solutes in the given solution.

Keywords: B-Coefficients; B-Coefficient transfer; Paracetamol; Partial molal volume; Partial molal volume transfer; Valine.

INTRODUCTION



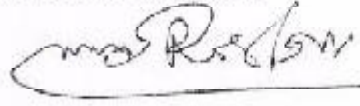
Proteins are natural substances, composed of one or more long chains of amino acids, with high molecular weights ranging from 5,000 to many millions and are the most important constituent of cell membranes and cytoplasm. A direct study of proteins in solution is difficult as their behavior in solutions is governed by a combination of several specific interactions. One of the approaches that reduces the degree of complexity and requires less complex measurement techniques is to study the interactions in systems containing smaller biomolecules, such as amino acids and peptides.

Amino acids which are building blocks of proteins, play a significant role in metabolism and many neurochemical response mechanisms, such as memory, appetite control, and pain transmission [1, 2]. It is well known that drugs used in medicine may alter the metabolism of cells and organs in the human body, or they may kill or inactivate pathogens such as bacteria, viruses and fungi. Eventually, the drug-macromolecule interactions affect the action of a drug in the living organism, as it is based on different physiological processes and nature of the receptors for the drug molecules [3]. Research has further proved that drug solutions produce remarkable effects on the conformation and properties of proteins like denaturation, solubility and dissociation into subunits [4, 5]. The activity of enzymes and four main types of non-covalent interacting forces that could play a major role in drug-protein binding, like hydrogen bonds, van der Waals forces, electrostatic, and hydrophobic interactions [6] may decide the stability of protein structure in biological conditions. Since protein loses its biological activity due to physical factors like temperature, pressure, mechanical shear force, ultrasonic vibration and ionizing radiation, the thermodynamic parameters of binding reaction are the main evidence for confirming acting forces. Therefore, the thermodynamic parameters depend on temperatures are analyzed in order to characterize the acting forces between drug and amino acid [7]. Studies of the effect of concentration of drugs and temperature on the thermodynamic properties of aqueous amino acid solutions have been proven to be very useful in elucidating the various interactions that occur in drug-macromolecule mixtures of solutions that explains the process of absorption of drugs and transport of drugs across biological membranes [8]. In continuation of our previous studies of amino acids in some aqueous drugs [8-11] we report the thermodynamic study of valine in aqueous paracetamol solution, in this paper.

A detailed research survey shows that no one has so far reported thermodynamic study of valine in aqueous paracetamol using volumetric and viscometric studies. In continuation to our previous work on alanine



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Ultrasonic Studies of Valine in Aqueous Paracetamol Solutions at Different Temperatures

Rajagopal. K, Roy Richi Renold. G*, Mohamed Roshan. M

Abstract— The derived parameters of ultrasonic velocity such as isentropic compressibility (β_s), the change in isentropic compressibility ($\Delta\beta_s$), the relative change in isentropic compressibility ($\Delta\beta_s/\beta_s^0$), the apparent molar compressibility (k_ϕ), the limiting apparent molar compressibility (k_ϕ^0), the transfer limiting apparent molar compressibility ($\Delta_\infty k_\phi^0$), the hydration number (n_H), and the pair and triplet interaction parameters (k_{HP} , k_{HPH}) are computed from the experimentally measured ultrasonic velocity and density data of valine in 0.025 M, 0.05 M, 0.075 M and 0.1 M aqueous paracetamol solutions at 298.15, 303.15, 308.15, 313.15 and 318.15 K. These thermodynamic parameters are used to elucidate the solute-solute and solute-solvent interactions of valine in aqueous paracetamol solutions.

Index Terms— Hydration number · Isentropic compressibility · Limiting apparent molar compressibility · Paracetamol · Ultrasonic velocity

1 INTRODUCTION

Proteins are polymer chains made of amino acids linked together by peptide bonds. They are found in all cells of the body and are the most essential nutrients for the human body. They are important in the sense that they are one of the building blocks of body tissue, and can also serve as a source of fuel for cells. The structure of proteins in various solvents is affected by the complex conformational and configurational factors making it difficult to interpret the nature of interaction directly from studies on proteins in aqueous media. Therefore, investigations on the behavior of model compounds of proteins like amino acids are of great importance. Data on the thermodynamic and transport properties of amino acids in aqueous phase play a key role in the optimization and design of protein molecules. To understand the thermodynamic behavior, the hydration of proteins and non-covalent forces stabilizing their native structure and the solvation property of proteins in solution, amino acids have been used as models where the prediction of the properties of biochemical systems can be had by deriving simple additivity schemes [1].

Recently [2] we have reported the volumetric and viscometric studies of valine in aqueous paracetamol and confirmed the presence of strong solute-solvent interactions in addition to the presence of weak solute-solute interactions. In continuation of our earlier work, in this paper we report data on ultrasonic velocities and densities of valine in aqueous paracetamol at five different temperatures (298.15, 303.15,

308.15, 313.15 and 318.15 K).

Valine [2] is a type of essential amino acid named after the plant valerian, containing an α -amino group (NH_3^+), an α -carboxylic acid group (COO^-), and a side chain isopropyl variable group, classifying it as a non-polar amino acid, which is used to promote normal growth, to repair tissues, to regulate blood sugar, and to provide the body with energy. It helps to stimulate the central nervous system and is much needed for proper mental functioning. The molecular formula is $\text{C}_6\text{H}_{11}\text{NO}_2$ and the chemical structure is shown in Figure-1.

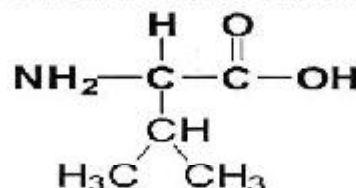


Fig. 1 Chemical structure of Valine

Paracetamol [3], IUPAC name of Paracetamol is N-acetyl-4-aminophenol which is white in colour broadly used as an analgesic (pain reliever) and antipyretic (fever reducer) drug. The molecular formula is $\text{C}_8\text{H}_9\text{NO}_2$. Paracetamol consists of a benzene ring core, substituted by one hydroxyl group and the nitrogen atom of an amide group in the para (1,4) pattern which can take part in interactions with valine. The amide group is acetamide (ethanamide). It is an largely (extensively) conjugated system, as the lone pair on the hydroxyl oxygen, the benzene pi cloud, the nitrogen lone pair, the p orbital on the carbonyl carbon, and the lone pair on the carbonyl oxygen are all conjugated [3]. The presence of two activating groups makes the benzene ring highly reactive towards electrophilic aromatic substitution.

Being a second derivative of free energy, compressibility is another powerful thermodynamic parameter for elucidating the behavior of solute in a solvent as it could sense the solute

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**VISCOSITIES OF L - PROLINE AND L- THREONINE IN (0.05, 0.10, 0.15, AND 0.20)
MOL·KG⁻¹ AQUEOUS METFORMIN HYDROCHLORIDE SOLUTIONS AT
DIFFERENT TEMPERATURES**

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ABSTRACT

Viscosity (η) measurements of amino acids L-Proline and L-Threonine in aqueous solutions of metformin hydrochloride (an antidiabetic drug) (0.05, 0.10, 0.15 and 0.20 mol·kg⁻¹) have been carried out in the concentration range (0.025–0.15 mol·kg⁻¹) at 298.15, 303.15, 308.15, 313.15 and 318.15 K. Viscosity B-coefficients of Jones-Dole equation, B-coefficients transfer (ΔB), temperature dependent of B-coefficient, free energy of activation per mole of solvent ($\Delta\mu_1^{*s}$) and solute ($\Delta\mu_2^{*s}$) are estimated using viscosity data. Our study concludes the existence of strong solute solvent interaction in the studied systems. Furthermore, structure making and breaking behaviour of both amino acids have also been assessed in aqueous metformin hydrochloride solutions. The thermodynamics of viscous flow has also been discussed.

KEYWORDS: L-proline, L-threonine, Metformin Hydrochloride, B-coefficients, Free energy of activation per mole of solvent ($\Delta\mu_1^{*s}$) and solute ($\Delta\mu_2^{*s}$).

INTRODUCTION

To understand the structure and function of proteins, it is essential to study the interactions responsible for stabilizing the native state of proteins in aqueous solutions. The study of these interactions provides an important insight into the conformational stability and unfolding behaviour of proteins. The study of these characteristics of proteins has proved quite challenging due to its complex structure and still remains a subject of extensive investigations.

The thermodynamic properties of a completely unfolded protein system can be estimated by adding together the thermodynamic property contributions of the small structural units that constitute its molecular sequence. Therefore, protein model compounds such as amino acids and peptides, which are basic components of proteins, have been investigated in detail with respect to their thermodynamic properties in aqueous and mixed aqueous solutions.^[1-7] Recently, researchers have evoked a lot of interest on the model of proteins such as amino acids, peptides, amides and their derivatives.^[8-13]



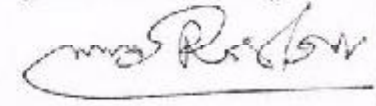
Amino acids are the building blocks of proteins which can be used for studies expected to set impact on the solvation and conformation of proteins and often regarded as the ideal model for the studies of proteins. The thermodynamic properties and transport properties of amino acids in a variety of media can provide valuable information for the stability and denaturation of proteins, which could promote the progresses of medicine(drugs) and human science.^[14,15] Since the living organism is a complex system, it is of immense significance to study the thermodynamic properties of amino acids with functionally important biomolecule in aqueous drug solutions.^[16,17]

Among the various thermodynamic properties, attempts have been made to study the interaction of amino acids and peptides in aqueous drug solutions^[18] with viscometric properties as viscosity is an important parameter that affects the permeation of drug through biological membrane. The Viscosity B-coefficient is considered to be a measure of the effective hydrodynamic volume of the solvated ion/solute, and used to denote the order or disorder introduced by the ions or solute into the solvent structure.^[19] Viscosity B



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TEMPERATURE-DEPENDENT VOLUMETRIC AND VISCOMETRIC PROPERTIES OF L-PHENYLALANINE IN AQUEOUS METFORMIN HYDROCHLORIDE SOLUTIONS.

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ABSTRACT

Densities and viscosities of L-Phenylalanine in (0.05, 0.10, 0.15 and 0.20) mol kg⁻¹ aqueous solutions of Metformin-HCl have been measured at T = (298.15, 303.15, 308.15, 313.15 and 318.15) K and experimental pressure p = 0.1 MPa to study nature of the interactions of Phenylalanine with aqueous metformin hydrochloride (Metformin-HCl) as a function of temperature. Several thermodynamical parameters such as partial molal volume V_{ϕ} , standard partial molal volume V_{ϕ}^0 , transfer volume ΔV_{ϕ}^0 , hydration number n_H , the second derivative of infinite dilution of partial molal volume with respect to temperature, viz., $\partial^2 V_{\phi}^0 / \partial T^2$, viscosity B-coefficient, transfer B-

coefficient ΔB , variation of B with temperature (dB/dT), free energies of activation of viscous flow $\Delta\mu_1^{0*}$ and $\Delta\mu_2^{0*}$ per mole of solvent and solute are reported. The dependence of these parameters upon concentration and temperature clearly show the presence of strong solute - cosolute interactions. Furthermore the pair and triplet interaction coefficient have also been calculated and reported.

KEYWORDS: Standard partial molal volume, transfer volume, hydration number, viscosity B-coefficient, activation energy, L-Phenylalanine, Metformin hydrochloride.



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INTERACTIONS OF L-THREONINE WITH AN AQUEOUS ANTI-DIABETIC DRUG SOLUTION AT VARIOUS TEMPERATURES: A VOLUMETRIC APPROACH

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ABSTRACT

Densities ρ , have been measured for L-Threonine in aqueous Metformin Hydrochloride solutions of higher concentrations (0.10, 0.15 and 0.20M) mol kg⁻¹ at T = 298.15 – 318.15K. Apparent molal volumes V_{ϕ} have been determined from the experimental densities. Several thermodynamical parameters such as standard partial molal volume V_{ϕ}^0 , transfer volume $\Delta_{tr}V_{\phi}^0$, hydration number n_H , the second derivative of infinite dilution of partial molal volume with respect to temperature, viz., $\partial^2 V_{\phi}^0 / \partial T^2$ have been calculated using the density data. Furthermore apparent molal expansibility E_{ϕ} , thermal expansion coefficient, α_2 and the pair and triplet interaction coefficients V_{AB} and V_{ABD} have been calculated and reported. These results interpreted through a co-sphere overlap model indicate the presence of strong solute-co-solute interactions in the reported systems.

KEYWORDS: Apparent molal volume, standard partial molal volume, transfer volume, hydration number, L-Threonine, Metformin hydrochloride

1. INTRODUCTION

Most biochemical processes are temperature dependant and occur in aqueous media. The studies on the physicochemical properties of biomolecules like amino acids, peptides, sugars provide useful information about the complex mechanism of molecular interactions. In our bodies, drug interactions with proteins play a very vital role in the metabolic pathways or the biological processes occurring inside it. When certain molecules are added to protein solutions they either stabilize or destabilize the proteins.^[1,2] Sometimes protein conformation is affected by co-solutes due to the solvent effects or their direct binding. The physicochemical behaviour of protein are strongly influenced by its interaction with the surrounding solvent molecules.^[3,4]

Because of the complex structure of proteins, direct studies of solute-solvent effects on these biological macromolecules are quite difficult. Therefore, to study the interactions of these macromolecules, some simple model compounds such as amino acids which are the basic structural units of proteins are generally taken. There is a difference in the side chains of these model compounds due to the size, shape, charge, hydrogen-bonding capacity, hydrophobicity and chemical reactivity, due to which these side chains contribute to


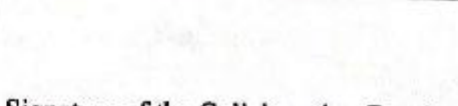

the structure and function of proteins, individually and collectively. Thermodynamic properties of amino acids in aqueous drug solutions can provide valuable information regarding the stability of proteins in these solutions, their solubility, separation and purification, solute-solvent and solute-co-solute interactions. Therefore, it may be interesting to investigate variations of these thermodynamic properties of amino acid with temperature which will help us to understand the phenomena like drug action, drug absorption, and drug transport. Hence, several authors have used amino acids instead of proteins to study the molecular interactions with aqueous drugs solutions.^[5-10]

For example, Rajagopal and Jayabalakrishnan (2010) have reported the effect of temperature on volumetric and viscometric properties of homologous amino acids in aqueous Metformin Hydrochloride solutions^[11] and concluded that second derivative of V_{ϕ}^0 with respect to temperature shows the structure making property of the studied amino acids in aqueous Metformin Hydrochloride solutions. Rajagopal and Edwin Gladson (2010) also studied and reported Partial Molar volume and partial molar compressibility of four homologous α -amino acids in aqueous sodium fluoride solutions at different temperatures.^[12] Amalendu Pal and Nalin



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An Efficient Classification of MRI Brain Images and 3D Reconstruction Using Depth Map Estimation

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Abstract


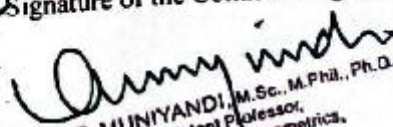
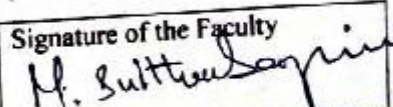
Digital Image processing is applied under the area of medicine so as to distinguish the ailments in the body of humans. The three dimensional reconstruction (3D) of tumor from the medicinal images is a significant procedure in the area of medicine while it assists the physicians in identification, surgical planning and biological investigation. This article includes two phases namely, i) Classification and ii) 3D reconstruction. Originally the input image is obtained from the MRI database which then undergoes skull stripping is a pre-processing phase for identifying the brain tumor that purges the redundant borough from the image. In the classification phase, the skull Stripped images undergoes segmentation by means of the watershed algorithm so as to identify the segmented tumor. Then from the segmented image the attributes such as shape, intensity and texture are extorted. Subsequently the attributes are lessened via the Principle Component Analysis (PCA). Depending upon the condensed attributes, the probabilistic neural network classifier categorizes the normal and the abnormal (tumor) images. The next phase is the 3D reconstruction phase, we intended the depth assessment for the skull stripped image by means of the guided filter. When the depth is attained, the visual relic of the created left view and right view images yields the ultimate 3D reconstruction outcomes.

Keywords: Skull stripping, Watershed segmentation, PNN classifier, Principle Component analysis (PCA), 3D Reconstruction, Magnetic Resonance Image (MRI), Depth-map estimation.



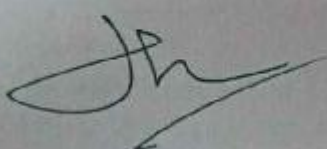
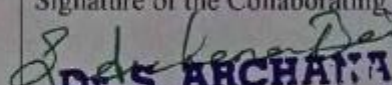
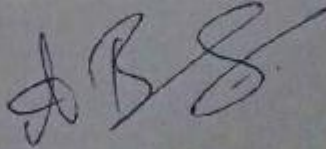
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		Signature of the Faculty  Dr. M. SULTHANA BARVIN MA, M.Phil., M.B.A., Ph.D., Assistant Professor & Head, Department of Economics Sadakathullah Appa College (Autonomous) Rahmath Nagar, Tirunelveli - 627 011.



**Sadakathullah Appa College
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3	Name of the Collaborating Organization	:	Sir Theagaraya College, Chennai 21
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Publications – Shanlax international journal of commerce Volume 6/ Special issue 4/ Feb 2018 "A Conceptual study on growth and impact of Internet Banking and Technology in Indian Banks"
6	Period of Collaboration	:	From : Sep 2017 To: Jan 2018
7	Financial Involvement (if any)	:	NO
8	Proof Attached	:	Yes
Signature of Principal		Signature of the Collaborating Faculty	
		 DR. S. ARCHANA BAI M.B.A., M.Com., M.Phil., Ph.D., ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE SIR THEAGARAYA COLLEGE CHENNAI-600 021.	
		Signature of the Faculty	
			

A CONCEPTUAL STUDY ON GROWTH AND IMPACT OF INTERNET BANKING AND TECHNOLOGY IN INDIAN BANKS

A. Benazir, M.Com., M.Phil.,

Research Scholar, Mother Teresa Women's University, Kodaikanal

Dr. S. Archana Bai, M.Com., M.Phil., M.B.A., M.Phil., Ph.D.,

*Research Supervisor, Assistant Professor
Department of Commerce, Sri Theagaraya College, Chennai*

Abstract

The Internet Banking is changing the banking industry and is having the major effects on banking relationships. Internet Banking involves delivery of banking products and services. This paper describes the current state of Internet banking in India and discusses its implications for the Indian banking industry. This research paper focuses on the impact of internet banking and technology in Indian banking sector. Without information technology and communication we cannot think about the success of banking industry. This paper identifies the weaknesses of conventional banking and explores the consumer awareness, use patterns, satisfaction and preferences for Internet banking and also highlights the factors that may affect the bank's strategy to adopt Internet banking.

Keywords: Internet banking, latest technology, impact, growth, Indian banks.

Introduction

Internet Banking refers to the banking services provided by the banks over the internet. Some of these services include paying of bills, funds transfer, viewing account statement, etc. Banks also deliver their latest products and services over the internet. Internet banking is performed through a computer system or similar devices that can connect to the banking site via the internet. Nowadays, you can also use internet banking on your mobile phones using a Wi-Fi or 3G connection. With the ease of availability of cyber cafes in the cities, it has become quite popular. Banking is now no more limited in going and visiting the bank in person for various purposes like depositing and withdrawing money, requesting for account statement, stop a payment, etc.

Services of Internet Banking

Banks in India are offering wide range of their services and their products through internet banking. Some of the major services and products in India are:

- Provides account statement (account info), Balance enquiry, balance statement and transaction reports used.
- Transfer funds between accounts, even if they are in different branches or cities.
- Banks Bill Payment is the easiest way to manage bills. Account holder can pay their regular monthly bills i.e. telephone, electricity, mobile phone, insurance etc. at anytime, anywhere for free. Saves time and effort.
- Can electronically submit a request for Cheque-book, Stop payment instructions, Opening a fixed deposit, Opening a recurring deposit, Intimate for the loss of ATM card etc.
- Demat is commonly used abbreviation of "Dematerialisation", which is a process whereby securities like share, debentures are converted from the material (paper documents) into electronic data and stored in the computer of an electronic Depository.



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4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Publications - Sadakath A Research Bulletin Volume V/ Special issue / March 2018 "A Conceptual study on impact of GST on Indian Textile Industry"
6	Period of Collaboration	:	From : Nov 2017 To: Feb 2018
7	Financial Involvement (if any)	:	NO
8	Proof Attached	:	Yes

Signature of Principal

Signature of the Collaborating Faculty

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Signature of the Faculty

A CONCEPTUAL STUDY ON IMPACT OF GST ON INDIAN TEXTILE INDUSTRY

A. Benazir¹

Dr. S. Archanabai²

Abstract

GST stands for Goods and Services Tax, which is applied on goods and services at a national level for achieving overall economic growth of a country. GST is designed to replace the indirect taxes imposed on goods and services by the Central and States. GST bill was officially introduced in the year 2014. But GST was passed by the Parliament on 8 August 2016, followed by ratification of the bill by more than 15 states and enactment of the bill in early September 2016 and GST is implemented from 1st July 2017. The Goods and Services Tax (GST) is the biggest and most significant tax reform in India. The tax rate has become a blessing for some sectors of Indian textile industry, at the same time; it has become a burden for some sectors, especially for the people related to unorganized business segment. Textile sector of India is one of the top contributors toward the development of the Indian economy. Textile Industry is one of the oldest manufacturing industries in the country and the second largest industry, after agriculture. The textile industry employs both skilled and unskilled people. This paper is an analysis of impact of GST on textile sector. However, the impact of GST on the textile sector will be quite important. Taxation of textile sector is presently opaque and non-neutral across its various segments. This study examines the implications of GST for the Indian textile industry.

Keywords: GST, Impact on Export and Import, Future of Textile Industry

Introduction

Textile sector of India is one of the top contributors toward the development of the Indian economy. It is one of the oldest manufacturing industries in the country and the second largest industry, after agriculture. The textile industry employs both skilled and unskilled people. The industry contributes over 10 percent of the total annual exports of the country.

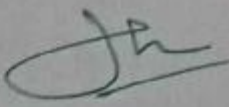
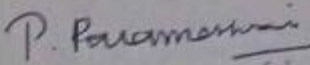

The textile industry has two segments, organised and unorganised. The unorganised textile sector includes handicraft, handloom, small and medium scale mills whereas an organised sector consists of spinning, garment and apparel which uses modern machinery and techniques. Under the GST, the rate structure for textile is decided at 5% for cotton fiber and 18% for manmade synthetic fiber while silk and jute are totally exempted from the same. The GST council has mentioned some rules regarding the e-way-bill and rates. At the same time, the GST rates on job work of textiles and the related products that are manufactured are reduced from 18% to

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5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Paper Publication
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Website- www.aarf.asia, Email : editor@aarf.asia , editoraarf@gmail.com

A STUDY ON RURAL AND URBAN REGION OF ONLINE TRADING RETAIL SECTOR WITH SPECIAL REFERENCE TO TAMILNADU

Ms. T. Parameswari,

Research scholar,
Department of commerce,
Rajagiri dawood batcha college of arts &
science

Dr. M. Mohamed Siddik

Assistant professor pg & research dept.of
commerce.
Sadakathullahappa college

ABSTRACT

Retail sector is growing in India year by year; India's strong growth fundamentals along with increased urbanisation and consumerism are the key drivers and they have opened up immense scope for retail expansion. Generally Indian rural retail stores are in the form of haats, bazaar and either melas or jatra. Undeniably, the urban market such as metropolitan cities, tier II, III cities offers great opportunities to organized retailers but they are anticipated to saturate in the near future due to entry of e-commerce and online service provider. Hence, most big retail companies are envisaging entering in untapped rural retail market. Corporate backed hypermarkets, retail chains, privately owned large retail businesses are

some of the examples of organized retailing and it occupies just 6-8% share in rural and urban retailing

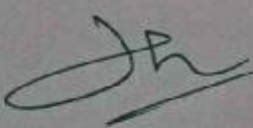
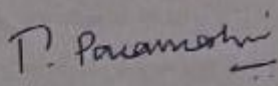

Key words: Rural marketing, consumer behaviour, retail.

INTRODUCTION

This paper investigate the modern retails developments and growth of online retailing formats .India is fifth largest market in the world and ranks fourth among the surveyed 30 countries in terms of global retail development. Day by day changing lifestyle, increasing dominance of western culture, rising population and rising income of rural and urban population is influencing the retail sector with growing literacy level and quality



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**A STUDY ON IMPACT OF ONLINE TRADING ON RETAIL SECTOR
WITH SPECIAL REFERENCE TO TAMILNADU**

Ms. T. Parameswari

Research scholar,
Department of commerce,
Rajagiri dawood batcha college of arts & science

Dr. M. Mohamed Siddik

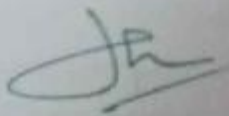
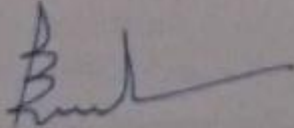
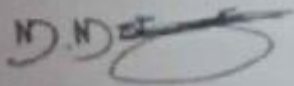
Assistant professor pg & research dept. of commerce,
Sadakathullahappa college

ABSTRACT

In this paper an attempt has been made to accentuation the force of the increasing trading of online shopping over the various fixed shop retailers. Online trading is trading in products or services using computer networks, such as the Internet. Retailers comprise of a large section of the population and a larger population is dependent upon these retailers. But the display of e-stores with their smart incentives and wide varieties has ill-treated on their face the fear of uncertainty and exposure. In India the retail sector accounts for 22% of the country's Gross Domestic Product (GDP) and contributes to 8% of the total employment. This study appearance into the various aspects about how retail businesses are being affected and also the various recovery mechanisms they are coming up with to counter those e-stores in their race of survival. This paper also unravels the effect upon the profitability of the various concerns due to increasing trend for online shopping. Although the periodicity of the study is less yet an effective attempt has been made to enlighten the state of affairs along with concrete suggestions.



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5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Publication	
6	Period of Collaboration	:	From: April/2018 To:	
7	Financial Involvement (if any)	:	-	
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A STUDY ON CUSTOMER RELATIONSHIP MANAGEMENT THROUGH CUSTOMER SATISFACTION OF NESTLE BABY FOOD PRODUCTS

Dr. Mohammed Siddik

Asst. Prof. PG and Research Department of Commerce, Sadakathullah appa College, Tirunelveli
and

Ms. Dhanalakshmi K, Acharya Institute of Graduate Studies, Bangalore

1.0 INTRODUCTION


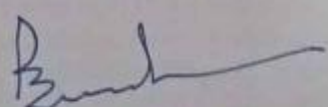

Customer relationship management, in the budding stage it was known as Customer Information System (CIS) or Database Marketing with a single function solution designed to support a specific set of employees. It was pioneered by Robert and Kate Kestnbaum using statistical modeling. In 1986, it tapped into the market as Contact Management Software and given scope to contact management, sales force automation (SFA) and customer contact centre (CCC) and then later termed as Customer Relationship Management and also Mobile Customer Relationship Management (M-CRM).

Till 2000, CRM era is called as Traditional CRM and after 2000 it has been now emerged as Social CRM. However, traditional CRM was focussing much on collecting, managing, static customer data (such as past purchase information, customer demographics, contact details). They were often sourced from e-mail and phone interactions between the company and the customer.

Social CRM adds a layer of information into traditional CRM by collecting the information through social media / networks like Facebook, Twitter, LinkedIn or any other social network. This has helped not only for interactions with customers but also with the vendors, suppliers, retailers, which is termed as multichannel retailing or omnichannel. It also influencing the companies to track customer's social influence and source data from conversations. It is also aiding companies to keep a full audit history of customer interaction, available to take care of the customers and employees too. CRM for short - are dependent on an information superstructure comprised of various technologies that enable organisations to store, access, analyse, and manipulate vast amounts of customer data. The evolution of CRM is from a Data Warehouse to its smart utilisation for implementing Marketing Automation to a Multi Channel Integration. With the growing acceptance of CRM and Marketing Automation, organisations opted for Multi-Channel Campaigns and explored the elements that help to define a strong multi-channel framework.



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4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: Publication
6	Period of Collaboration	: From : May/2018 To:
7	Financial Involvement (if any)	: -
8	Proof Attached	: Yes / No
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		Signature of the Faculty
		

ISSN IF → 4.66
2018

A study on Nestle baby food products marketing performance through customer loyalty

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Ms. Dhanalakshmi K

Research Scholar, Bharathiar University and Asst. Professor, Acharya Institute of Graduate Studies, Bangalore

Abstract: In the present world, many companies are extensively turning to Customer management in order to understand better the customer tastes, preferences, needs and to fulfil them, satisfy them and retain them. The company performance is related to developing and retaining customers and their loyalty too. It is a blend of internal and external activities of the company. The internal activities, comprises, viz., business process, data capturing, techniques, etc., whereas external activities includes sales, marketing and customer support with technology. This study focuses on external performance of Identifying whether the customers are loyal to the Nestle baby food products. The study has been analysed using simple percentage method, chi-square test and H test. The study signifies that the respondents were loyal and unwilling to switch over the Nestle brand.

Key words: Baby Food Products, Customer Relationship Management, Customer Loyalty.

1.0 INTRODUCTION


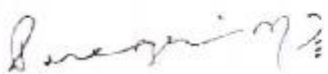

Customer relationship management, in the budding stage it was known as Customer Information System (CIS) or Database Marketing with a single function solution designed to support a specific set of employees. It was pioneered by Robert and Kate Kestnbaum using statistical modeling. In 1986, it tapped into the market as Contact Management Software and given scope to contact management, sales force automation (SFA) and customer contact centre (CCC) and then later termed as Customer Relationship Management and also Mobile Customer Relationship Management (M-CRM).

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In the present world, many companies are extensively turning to Customer relationship management (CRM) in order to understand better the customer tastes, preferences,



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6	Period of Collaboration	:	From : 2018 To: 2018
7	Financial Involvement (if any)	:	NO
8	Proof Attached	:	Yes / No
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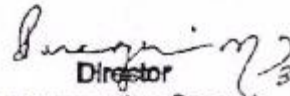
Director
ST. MARY'S COLLEGE (Autonomous)
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Date: 30.01.2018

ATTENDANCE CERTIFICATE


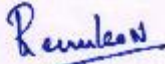
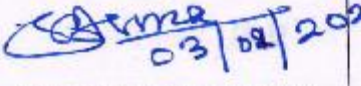
This is to certify that Dr. R. Janet Rani, Assistant Professor of Head, Department of Microbiology of Sadakathullah Appa College (Autonomous), Tirunelveli, delivered a Guest Lecture "Recent Trends in Microbiology" organized by the Department of Microbiology at St. Mary's College (Autonomous) SSC, Thoothukudi on 30th January 2018.


30/1/18

Director
Self Supporting Courses
St. Mary's College (Autonomous)
Thoothukudi - 628 001.



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5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From: June, 2021 To: Dec, 2021 17.08.2021
7	Financial Involvement (if any)	:	—
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TIRUNELVELI - 627 011.

3.7.1/Collaborative Activities/2017-18/41

Date: 28.06.2017

TO

Dr. K. HEMA

Assistant Professor,
Department of English
Sadakathullah Appa College
Tirunelveli

Madam,

We hereby authorize you as a member of our Editorial Board for our college Journal Pragnavani (Bi-annual) with ISSN:2249-6017 for the year 2016-2017. We feel honoured by your participation in our academic and Research activities.

Thanking You

M. Malaswathi
Principal 28/6/17

PRINCIPAL
SRI SARADA COLLEGE FOR WOMEN
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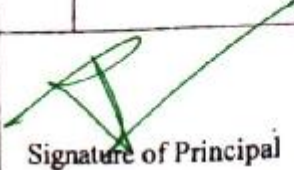


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5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	Co-guide (1 scholar)
6	Period of Collaboration	From : August 2017 To: till date
7	Financial Involvement (if any)	—
8	Proof Attached	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty
		 Signature of the Faculty



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CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

SUMATHY M

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Sir/Madam,

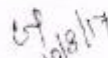
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

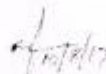
Ref: Counseling attended by the candidate.

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- | | |
|---|--|
| 1. Name of the Scholar | : SUMATHY M |
| 2. Registration No. | : 17211194012008 |
| 3. Discipline | : English |
| 4. Gender | : Female |
| 5. Social Category (Community) | : OC |
| 6. Nationality | : Indian |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : DR K SHANMUGA SUNDARA RAJ |
| 10. Name of the Co-Supervisor | : Dr K HEMA |
| 11. Mode | : FULL TIME |
| 12. Research Centre | : Sadakathullah Appa College, Tirunelveli. |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : SLAVERY, CRUELTY, AND THE RISE OF HUMANITARIANISM IN
SLAVE NARRATTIVES |
| 15. Doctoral Committee
Members Details | : 1. DR KANNA MUTHIAH
Assistant Professor & Research Head, Department of English,
Sadakathullah Appa College, Tirunelveli
Mobile No. : 9629245342, Email ID :
kanna25naga@yahoo.co.in
2. DR R JEYASUNDARAJ
Associate Professor, Department of English, St. John's College,
Tirunelveli
Mobile No. : 9994192446, Email ID :
rajayasundar@gmail.com |


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MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

Copy to :

<p>Guide : DR K SHANMUGA SUNDARA RAJ Assistant Professor Department of English Government Arts and Science College, Kovilpatti Tamil Nadu Thoothukudi, Pincode - 628503 Mobile No. : 8903426664 Email ID : drckssraj@gmail.com</p>	<p>Co-Guide : Dr K HEMA Assistant Professor Department of English Sadakathullah Appa College Tamil Nadu, Thirunelveli Pincode - 627011 Mobile No. : 9486379448 Email ID : hemaselvan11@gmail.com</p>
<p>DC Member 1 : DR KANNA MUTHIAH Assistant Professor & Research Head, Department of English, Sadakathullah Appa College, Tirunelveli</p>	<p>DC Member 2 : DR R JEYASUNDARA Associate Professor, Department of English, St. John's College, Tirunelveli</p>
<p>The Principal, Sadakathullah Appa College, Tirunelveli.</p>	

Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with M.Phil., qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits
- Research Centre Fee of Rs. 2400/- (per annum) to be paid to the Research Centre
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- and refreshment / contingency cost of Rs.500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 12000 /- per annum on or before June 30th of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank. M.S University branch or through challan in state bank of India, Power Jothi account to MSU A/c 32723606944.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
- It is also informed that the entire duration of the Ph.D., Research work is governed by the Ph.D., Regulations of 01.07.2016.
- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)

Phone : 0462 - 2333741, 2338721, 948799692, 9487907000, FAX: 2322973, Website : msuniv.ac.in



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K. Hema, Assistant Prof. of English, Staff ID : ATENO4
2	Name of the Collaborating Faculty with Designation	:	Dr. D. Nalina Paulin Assistant Prof. of English,
3	Name of the Collaborating Organization	:	St. John's College, Palayamkottai, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member (1 scholar)
6	Period of Collaboration	:	From : 07.02.2018 To: fill date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
Signature of the Faculty		Signature of the Faculty	



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JANUARY2018

Date : January 10, 2018

Ph.D., Programme Commencement Order

To
SYED ALI FATHIMA R
32 PERINBAM STREET, SAMADHANAPURAM
PALAYAMKOTTAI
Tamil Nadu, Thirunelveli, Pincode - 627002
Mobile No. : 8754301141, Email ID : amihtafas@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

1. Name of the Scholar : SYED ALI FATHIMA R
2. Registration No. : 18121274012013
3. Discipline : English
4. Gender : Female
5. Social Category (Community) : BCM
6. Nationality : INDIAN
7. PWD Status : Not Applicable
8. Admission Based On : PG
9. Name of the Supervisor : Dr.D.Nalina Palni
10. Name of the Co-Supervisor : NIL
11. Mode : PART TIME INTERNAL
12. Research Centre : St. John's College, Palayamkottai
13. Date of Commencement : 10.01.2018
14. Proposed Title : RESISTANCE TOWARDS IDEOLOGICAL CONSTRUCTION OF
IDENTITY AND DYSTOPIAN STATE OF POWER : A POST-COLONIAL
READING OF THE HUNGER GAMES AND DIVERGENT
15. Doctoral Committee Members Details :
 1. B BENESON THILAGAR CHRISTADROSS
ASSOCIATE PROFESSOR / ENGLISH , ST. JOHNS COLLEGE,
PALAYAMKOTTAI-627002
Mobile No. : 9366700261, Email ID :
godisgood1968@gmail.com
 2. K HEMA
ASSISTANT PROFESSOR / ENGLISH, SADAKATHULLA APPA
COLLEGE, TIRUNELVELI-627011
Mobile No. : 9486379448, Email ID :
hemaselvan11@gmail.com

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DIRECTOR



DR. K. SENTHAMARAI KANNAN
DIRECTOR

Copy to :

Guide : Dr.D.Naline Palli ASSOCIATE PROFESSOR, DEPARTMENT OF ENGLISH ST JOHNS COLLEGE Tamil Nadu Thirunelveli, Pincode - 627002 Mobile No. : 9944217195 Email ID : nalinearulraj@gmail.com	Co-Guide : NIL
DC Member 1 : B BENESON THILAGAR CHRISTADOSS ASSOCIATE PROFESSOR / ENGLISH , ST. JOHNS COLLEGE, PALAYAMKOTTAI-627002	DC Member 2 : K HEMA ASSISTANT PROFESSOR / ENGLISH, SADAKATHULLA APPA COLLEGE, TIRUNELVELI-627011
The Principal, St. John's College, Palayamkottai	

Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with PG qualification should earn 16 credits in the following option. 4 course works of 4 credits each (or) 3 course works of 4 credits each and 1 mini project of 4 credits
- Research Centre Fee of Rs. 3000/- (per annum) to be paid to the Research Centre
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 11000 /- per annum on or before January 31st of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank, M.S University branch or through challan in state bank of India, Power Jothi account to MSU A/c: 6596950914.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
- It is also informed that the entire duration of the Ph.D., Research work is governed by the Ph.D., Regulations of 01.07.2016.
- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f. 01.07.2016 under the Head Doctoral committee(1.7)
- First Doctoral Committee meeting should be convened within two week from the date of Registration.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K. Iema Assistant Prof. of English Staff ID: ATEND4
2	Name of the Collaborating Faculty with Designation	:	Dr. P. Premalatha Associate Prof. of English
3	Name of the Collaborating Organization	:	Kumara Guru Swamikal Arts & Science College Srivaikundam, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for (2 scholars) Geo Pragatha. E Reg. No: 172240140126
6	Period of Collaboration	:	From: 10.8.2017 To: till date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes/No
Signature of Principal		Signature of the Collaborating Faculty Dr. P. Premalatha HEAD & ASSOCIATE PROFESSOR DEPARTMENT OF ENGLISH SRI KGS ARTS COLLEGE SRIVAIKUNTAM.	
		Signature of the Faculty Iema 04/02/2022	



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/REG/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

GEO PRAGATHA E
14-2-25 St Antonys Church Street, Agarakattu
Kadayanallur Taluk
Tamil Nadu, Thirunelveli, Pincode - 627852
Mobile No. : 9360616216, Email ID : remijoe27@gmail.com

Sir/Madam,

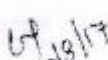
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

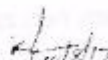
Ref: Counseling attended by the candidate.

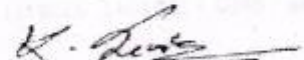
With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

1. Name of the Scholar : GEO PRAGATHA E
2. Registration No. : 17224014012126
3. Discipline : English
4. Gender : Female
5. Social Category (Community) : BC
6. Nationality : INDIAN
7. PWD Status : Not Applicable
8. Admission Based On : PG
9. Name of the Supervisor : DR P PREMLATHA
10. Name of the Co-Supervisor : DR R VASUHI
11. Mode : PART TIME INTERNAL
12. Research Centre : Manonmaniam Sundaranar University, Tirunelveli.
13. Date of Commencement : 10.08.2017
14. Proposed Title : RELIGION AND LITERATURE: THE THEME OF TAGORE'S GITANJALI AS THE REVELATION OF THE RELATION OF LOVE BETWEEN THE ABSOLUTE AND THE INDIVIDUAL SELF
15. Doctoral Committee Members Details :
 1. DR SELVI
Associate Professor, Department of English, S.T.C,
Palayamkottai.
Mobile No. : 9443378738, Email ID : selviarum09@yahoo.com
 2. DR K HEMA
Assistant Professor, Department of English, Sadakathullah
Appa College, Tirunelveli
Mobile No. : 9486379448, Email ID :
hemaselvan11@gmail.com


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DIRECTOR

**DR. K. SENTHAMARAI KANNAN****DIRECTOR**

Copy to :

Guide : DR P PREMLATHA Associate Professor Department of English Sri KGS Arts College, Srivaikuntam Tamil Nadu Thoothukudi, Pincode - 628619 Mobile No. : 9486777704 Email ID : premlathia68@gmail.com	Co-Guide : DR R VASUHI Assistant Professor Department of English Manonmaniam Sundaranar University Tamil Nadu, Thirunelveli Pincode - 627012 Mobile No. : 8870019491 Email ID : rvasuhi@gmail.com
DC Member 1 : DR SELVI Associate Professor, Department of English, S.T.C, Palayamkottai. Head of Department, English	DC Member 2 : DR K HEMA Assistant Professor, Department of English, Sadakathullah Appa College, Tirunelveli

Instructions

I D C - 21/12/2017

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with PG qualification should earn 16 credits in the following option. 4 course works of 4 credits each (or) 3 course works of 4 credits each and 1 mini project of 4 credits
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- and refreshment / contingency cost of Rs.500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 14000 /- per annum on or before June 30th of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank, M.S University branch or through challan in state bank of India, Power Jothi account to MSU A/c 32723605944.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
- It is also informed that the entire duration of the Ph.D., Research work is governed by the Ph.D., Regulations of 01.07.2016.
- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)



3.7.1/Collaborative Activities/2017-18/45

Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	<u>Dr. K. Hema</u> Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	:	<u>Dr. P. Premalatha</u> Associate Prof. of English
3	Name of the Collaborating Organization	:	Kumara Guru Swamikal Arts & Science College, Srivaikundam, Tirunelveli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	<u>Research</u>
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for Karpagavalli .T Reg No: 17224014012043
6	Period of Collaboration	:	From : To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty <u>Dr. P. Premalatha</u> HEAD & ASSOCIATE PROFESSOR DEPARTMENT OF ENGLISH SRI KGS ARTS COLLEGE SRIVAIKUNTAM.	
		Signature of the Faculty <u>Hema</u>	



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI – 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN

DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

KARPAGAVALLI T
324, George Road
Tamil Nadu, Thoothukudi, Pincode - 628002
Mobile No. : 9487049284, Email ID : karpaga_hari@yahoo.com


Sir/Madam,

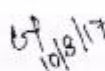
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

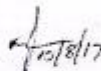
Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | | |
|---|---|------------------|
| 1. Name of the Scholar | : KARPAGAVALLI T | IDC - 21/12/2017 |
| 2. Registration No. | : 17224014012043 | |
| 3. Discipline | : English | |
| 4. Gender | : Female | |
| 5. Social Category (Community) | : BC | |
| 6. Nationality | : Indian | |
| 7. PWD Status | : Not Applicable | |
| 8. Admission Based On | : M.Phil | |
| 9. Name of the Supervisor | : Dr P Premalatha | |
| 10. Name of the Co-Supervisor | : Dr R Vasuhi | |
| 11. Mode | : PART TIME INTERNAL | |
| 12. Research Centre | : Manonmaniam Sundaranar University, Tirunelveli. | |
| 13. Date of Commencement | : 10.08.2017 | |
| 14. Proposed Title | : INTERIOR ODYSSEY- LIFE SUSTAINING MATRIX OF THE
PROTAGONISTS IN THE SELECT NOVELS OF BHARATHI
MUKHERJEE AND NERGIS DALAL | |
| 15. Doctoral Committee
Members Details | : 1. DR JEYASUNDARRAJ
Associate Professor, Department of English, St. Johns College,
Tirunelveli.
Mobile No. : 9994192448, Email ID :
rajjejasundar@gmail.com
2. DR K HEMA
Assistant Professor, Department of English, Sadakathulleh
Appa College, Palayamkottai.
Mobile No. : 9486379448, Email ID : NIL | |


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DIRECTOR



MANONMANIAM SUNDARANAR UNIVERSITY

CENTRE FOR RESEARCH

ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

3.7.1/Collaborative Activities/2017-18/45

Copy to :

Guide : Dr P Premalatha Associate Professor Department of English Sri KGS Arts College, Sri Vaikuntam Tamil Nadu Thoothukudi, Pincode - 628619 Mobile No. : 9486777704 Email ID : premlatha68@gmail.com	Co-Guide : Dr R Vasuhi Assistant Professor and Head ic Department of English Manonmaniam Sundaranar University Tamil Nadu, Thirunelveli Pincode - 627012 Mobile No. : 8870019491 Email ID : rvasuhi@gmail.com
DC Member 1 : DR JEYASUNDARRAJ Associate Professor, Department of English, St. Johns College, Tirunelveli.	DC Member 2 : DR K HEMA Assistant Professor, Department of English, Sadakathullah Appa College, Palayamkottai.
Head of Department, English	

Instructions

I DC - 21/12/2017

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with M.Phil. qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits
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- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- and refreshment / contingency cost of Rs.500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 14,000 /- per annum on or before June 30th of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank. M.S University branch or through challan in state bank of India, Power Jothi account to MSU A/c 32723606944.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
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- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)

Phone : 0462 - 2333741, 2338721, 9487999692, 9487907000, FAX: 2322973, Website : msuniv.ac.in



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	<u>Dr. K. Hema</u> Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	:	<u>Dr. A. Parvathavarthini</u> Assistant Prof. of English
3	Name of the Collaborating Organization	:	Aditanar College of Arts & Science Tiruchendur
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	<u>Research</u>
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for Mrs. K. Muneeswari Reg. No: 17222024012003
6	Period of Collaboration	:	From: 10.8.2017 To: till date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

Dr. A. PARVATHAVARTHINI, M.A., Ph.D., D.G.T.
ASSISTANT PROFESSOR OF ENGLISH
ADITANAR COLLEGE OF ARTS AND SCIENCE
VEERAPANDIANPATNAM, TIRUCHENDUR-620 216



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

MUNEESWARI K
242, Raj Kanna Nagar, Virapandianpatnam
Tiruchendur
Tamil Nadu, Thoothukudi, Pincode - 628216
Mobile No. : 9677643590, Email ID : eswarimunees@gmail.com

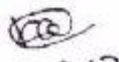
Sir/Madam,

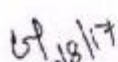
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counselling attended by the candidate.


With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|--|--|
| 1. Name of the Scholar | : MUNEESWARI K |
| 2. Registration No. | : 17222024012003 |
| 3. Discipline | : English |
| 4. Gender | : Female |
| 5. Social Category (Community) | : SCA |
| 6. Nationality | : Indian |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : Dr A PARVATHAVARTHINI |
| 10. Name of the Co-Supervisor | : NIL |
| 11. Mode | : PART TIME INTERNAL |
| 12. Research Centre | : Aditanar College of Arts & Science, Tiruchendur |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : FAMILIAL DISQUISITION ON THE SELECT NOVELS OF MANJU KAPUR AND JAISHREE MISRA |
| 15. Doctoral Committee Members Details | : 1. DR K THANIKASALAM
Head & Associate Professor, Department of English, Aditanar College, Tiruchendur
Mobile No. : 9443022444, Email ID : thanika10@yahoo.com
2. DR K HEMA
Assistant Professor, Department of English, Sadakathullah Appa College
Mobile No. : 9486379448, Email ID :
hemaselvan11@gmail.com |


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AR


10/08/17
DIRECTOR



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K. Hema, Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	:	Dr. A. Parvathavarthini Assistant Prof. of English
3	Name of the Collaborating Organization	:	Aditanar College of Arts & Science Tiruchendur
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for J. Sathiyalakshmi Reg. No. 17222024012005
6	Period of Collaboration	:	From: 10.08.2017 To: till date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

Dr. A. PARVATHAVARTHINI, M.A., Ph.D., DGT.
ASSISTANT PROFESSOR OF ENGLISH
ADITANAR COLLEGE OF ARTS AND SCIENCE
VEERAPANDIANPATNAM, TIRUCHENDUR-620 216



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

SATHIYALAKSHMI J
13, C Block, Sivanthi Aditanar Staff Quarters
Kumarapuram, Tiruchendur
Tamil Nadu, Thoothukudi, Pincode - 628215
Mobile No. : 9597544849, Email ID : rajesh84sathiya@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

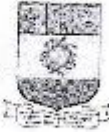
1. Name of the Scholar : **SATHIYALAKSHMI J**
2. Registration No. : 17222024012005
3. Discipline : English
4. Gender : Female
5. Social Category (Community) : BC
6. Nationality : INDIAN
7. PWD Status : Not Applicable
8. Admission Based On : M.Phil
9. Name of the Supervisor : PARVATHAVARTHINI A
10. Name of the Co-Supervisor : NIL
11. Mode : PART TIME INTERNAL
12. Research Centre : Aditanar College of Arts & Science, Tiruchendur
13. Date of Commencement : 10.08.2017
14. Proposed Title : VICTIMISATION TO EMANCIPATION OF WOMEN IN ANITA NAIRS
SELECTED NOVELS
15. Doctoral Committee Members Details :
 1. DR K THANIKASALAM
ASSOCIATE PROFESSOR, ADITANAR COLLEGE OF ARTS AND
SCIENCE, TIRUCHENDUR
Mobile No. : 9443022444, Email ID : thanka10@yahoo.com
 2. DR K HEMA
ASSISTANT PROFESSOR, SADAKABTHULLAH APPA COLLEGE,
TIRUNELVELI
Mobile No. : 9486379448, Email ID :
hemaselvan11@gmail.com

10/8/17
ASST

10/8/17
SUPDT

10/8/17
AR

10/8/17
DIRECTOR



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

Copy to :

Guide : PARVATHAVARTHINI A VIRAPANDIANPATNAM TIRUCHENDUR Tamil Nadu Thoothukudi, Pincode - 628216 Mobile No. : 9944190509 Email ID : apvathini@gmail.com	Co-Guide : NIL
DC Member 1 : DR K THIANKASAI AM ASSOCIATE PROFESSOR, ADITANAR COLLEGE OF ARTS AND SCIENCE, TIRUCHENDUR	DC Member 2 : DR K HEMA ASSISTANT PROFESSOR, SADAKABTHULLAH APPA COLLEGE, TIRUNELVELI
The Principal, Aditanar College of Arts & Science, Tiruchendur	

Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with M.Phil., qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits
- Research Centre Fee of Rs. 3000/- (per annum) to be paid to the Research Centre
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- and refreshment / contingency cost of Rs.500/- (Bills to be submitted) which will be reimbursed on submission of bills.
- You should pay the Research fee of Rs. 11000 /- per annum on or before June 30th of every year till the submission of thesis to the University through Demand Draft drawn in favour of "The Registrar Manonmaniam Sundaranar University", payable at Tirunelveli issued by any nationalised bank or through challan in Indian Bank, M.S University branch or through challan in state bank of India, Power Jochi account to MSU A/c 32723606944.
- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 6 years.
- It is also informed that the entire duration of the Ph.D., Research work is governed by the Ph.D., Regulations of 01.07.2016.
- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)

Phone : 0462 - 2333741, 2338721, 9487999692, 9487907000, FAX: 2322973, Website : msuniv.ac.in



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K. Hema Assistant Prof. of English Staff ID: ATEN04
2	Name of the Collaborating Faculty with Designation	:	Dr. A. Parvathavarthini Assistant Prof. of English
3	Name of the Collaborating Organization	:	Aditanar College of Arts & Science Tiruchendur
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for G. Ebenezer Helan Reg. No: 17222024012002
6	Period of Collaboration	:	From: 10.08.2017 To: till date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

Dr. A. PARVATHAVARTHINI, M.A., Ph.D., D.C.T.
ASSISTANT PROFESSOR OF ENGLISH
ADITANAR COLLEGE OF ARTS AND SCIENCE
VEERAPANDIANPATNAM, TIRUCHENDUR-628 216



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN

DIRECTOR

REF : MSU/RES/R1/JUNE2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

EBENEZAR HELAN C

11 A, Samuel Street, Nazareth

nil

Tamil Nadu, Thoothukudi, Pincode - 628617

Mobile No. : 9750787179, Email ID : helanganaraj06@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|---|---|
| 1. Name of the Scholar | : EBENEZAR HELAN C |
| 2. Registration No. | : 17222024012002 |
| 3. Discipline | : English |
| 4. Gender | : Female |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : Indian |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : Dr Parvathavarthini A |
| 10. Name of the Co-Supervisor | : nil |
| 11. Mode | : PART TIME INTERNAL |
| 12. Research Centre | : Aditanar College of Arts & Science, Tiruchendur |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : SOCIAL POLITICAL AND PSYCHOLOGICAL EXPATiation IN THE
SELECT NOVELS OF INDIRA PARATHASARATHY |
| 15. Doctoral Committee
Members Details | : 1. DR K THANIKASALAM
DEPT OF ENGLISH, ADITANAR COLLEGE OF ARTS AND
SCIENCE
Mobile No. : 9443022444, Email ID : thanika10@yahoo.com
2. DR K HFMA
DEPT OF ENGLISH, SADAKATHULLAH APPA COLLEGE
Mobile No. : 9486379448, Email ID :
hemaselvan11@gmail.com |

(Signature)

ASST

SUPDT

AR

(Signature)

DIRECTOR



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



Sep 15
14-3-2017

DR. K. SENTHAMARAI KANNAN
DIRECTOR

Copy to :

Guide : Dr Parvathavarthini A Assistant Professor Aditanar college of arts and science Tiruchendur Tamil Nadu Thoothukudi, Pincode - 628216 Mobile No. : 9944190609 Email ID : apvarthini@gmail.com	Co-Guide : nil nil nil nil Tamil Nadu, Thoothukudi Pincode - 628216 Mobile No. : Email ID :
DC Member 1 : DR K THANIKASALAM DEPT OF ENGLISH, ADITANAR COLLEGE OF ARTS AND SCIENCE	DC Member 2 : DR K HEMA DEPT OF ENGLISH, SADAKATHULLAI APPA COLLEGE
The Principal, Aditanar College of Arts & Science, Tiruchendur	

Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with M.Phil., qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits
- Research Centre Fee of Rs. 3000/- (per annum) to be paid to the Research Centre
- Fee of Rs. 5000/- for every sitting of Doctoral Committee meeting should be paid to the University before the conduct of every meeting
- TA / DA payable to the Doctoral Committee member by the Scholar/Supervisor/Co-Supervisor is to and fro II AC Railway fare and sitting fee of Rs. 500/- and refreshment / contingency cost of Rs.500/- (Bills to be submitted) which will be reimbursed on submission of bills.
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- For full-time scholars with M.Phil. qualification minimum period of the programme is 2 years and for PG holders 3 years.
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- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e.f 01.07.2016 under the Head Doctoral committee(1.7)

Phone : 0462 - 2333741, 2338721, 9487993692, 9487907000, FAX: 2322973, Website : msuniv.ac.in



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K. Hema, Assistant Prof. of English Staff ID : ATENO4
2	Name of the Collaborating Faculty with Designation	:	Dr. A. Parvathavarthini Assistant Prof. of English
3	Name of the Collaborating Organization	:	Aditanar College of Arts & Science Tiruchendur
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for Sivasankari Reg. No: 17222024012007
6	Period of Collaboration	:	From: 10.8.2017 To: till date
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
Signature of the Faculty		Signature of the Faculty	

Dr. A. PARVATHAVARTHINI, M.A., Ph.D., D.G.T.
ASSISTANT PROFESSOR OF ENGLISH
ADITANAR COLLEGE OF ARTS AND SCIENCE
VEERAPANDIANPATNAM, TIRUCHENDUR-628 216



DR. K. SENTHAMARAI KANNAN
DIRECTOR

REF : MSU/RES/R1/JUNF2017

Date : August 10, 2017

Ph.D., Programme Commencement Order

To

SIVASANKARI

51D4 Masilamani Nagar, First Street, Ambai Road
Kulavanigarpuram
Tamil Nadu, Thirunelveli, Pincode - 627005
Mobile No. : 9003333739, Email ID : shivaasankari.25@gmail.com

Sir/Madam,

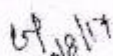
Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

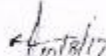
Ref: Counseling attended by the candidate.

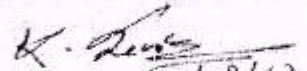
With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

- | | |
|---|--|
| 1. Name of the Scholar | : SIVASANKARI |
| 2. Registration No. | : 17222024012007 |
| 3. Discipline | : English |
| 4. Gender | : Female |
| 5. Social Category (Community) | : BC |
| 6. Nationality | : Indian |
| 7. PWD Status | : Not Applicable |
| 8. Admission Based On | : M.Phil |
| 9. Name of the Supervisor | : DR A PARVATHAVARTHINI |
| 10. Name of the Co-Supervisor | : NIL |
| 11. Mode | : PART TIME INTERNAL |
| 12. Research Centre | : Aditanar College of Arts & Science, Tiruchendur |
| 13. Date of Commencement | : 10.08.2017 |
| 14. Proposed Title | : DIASPORIC STUDY IN THE SELECT NOVELS OF CHITRA BANERJE :
DIVYAKARUNI |
| 15. Doctoral Committee
Members Details | : 1. DR K THANIKASALAM
Associate Professor and Head, Department of English, Aditanar
College of Arts and Science, Tiruchendur - 628 216.
Mobile No. : 9443022444, Email ID : thanika10@yahoo.com
2. DR K HEMA
Assistant Professor, Department of English, Sadakathullah
Appa College, Tirunelveli - 627 011.
Mobile No. : 9486379448, Email ID : d.jockim@gmail.com |


10/8/17
ASST


10/8/17
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10/8/17
AR


10/08/17
DIRECTOR

**DR. K. SENTHAMARAI KANNAN****DIRECTOR**

Copy to :


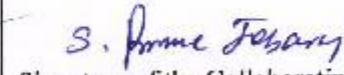
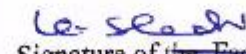
Guide : DR A PARVATHAVARTHINI Assistant Professor Department of English Aditanar College of Arts and Science, Tiruchendur Tamil Nadu Thoothukudi, Pincode - 628215 Mobile No. : 9944190609 Email ID : apvarthini@gmail.com	Co-Guide : NIL
DC Member 1 : DR K THANIKASALAM Associate Professor and Head, Department of English, Aditanar College of Arts and Science, Tiruchendur - 628 216.	DC Member 2 : DR K HEMA Assistant Professor, Department of English, Sadakathullah Appa College, Tirunelveli - 627 011.
The Principal, Aditanar College of Arts & Science, Tiruchendur	

Instructions

- All communication (letter) to this University should be forwarded by Supervisor / Co-Supervisor (wherever applicable)
- Candidates with M.Phil., qualification should earn 8 credits in the following options: 2 course works of 4 credits each (or) one course work of 4 credits and 1 mini project of 4 credits
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- For part-time scholars with M.Phil. qualification minimum period is 3 years and for PG holders 4 years. The maximum period for all scholars is 5 years.
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- For Details of functions of Doctoral Committee refer revised Ph.D., Research Guidelines w.e. 01.07.2016 under the Head Doctoral committee(1.7)



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. K SHEIK MYD EEN ASSISTANT PROFESSOR Dept. of Commerce Finance ST 3001
2	Name of the Collaborating Faculty with Designation	:	Dr. S. PRINCE JEBARAJ Assistant Professor in Commerce
3	Name of the Collaborating Organization	:	St. Xavier's College (Autonomous) Palayamkottai Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC member
6	Period of Collaboration	:	From : Jan 2018 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No Yes
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	



DR. K. SENTHAMARAI KANNAN

DIRECTOR

REF : MSU/RES/R1/JANUARY2018

Date : January 10, 2018

Ph.D., Programme Commencement Order

To

VANITHA P

2-63 thiruvalluvar west street, ammanpuram, tiruchendur, 2-63 thiruvalluvar west street, ammanpuram, tiruchendur
Tamil Nadu, Theothukudi, Pincode - 628201
Mobile No. : 9486220461, Email ID : vanitha87.mcom@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work - Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

1. Name of the Scholar : VANITHA P
2. Registration No. : 18121281012019
3. Discipline : Commerce
4. Gender : Female
5. Social Category (Community) : SC
6. Nationality : india
7. PWD Status : Not Applicable
8. Admission Based On : M.Phil
9. Name of the Supervisor : DR S PRINCE JEBARAJ
10. Name of the Co-Supervisor : NIL
11. Mode : PART TIME INTERNAL
12. Research Centre : St. Xavier's College (Autonomous), Palayamkottal
13. Date of Commencement : 10.01.2018
14. Proposed Title : A STUDY ON SERVICE QUALITY PERCEPTION AND PREFERENCE OF PATIENTS OF SELECTED PRIVATE HOSPITALS IN TUTICORIN DISTRICT
15. Doctoral Committee Members Details :
 1. DR K SHEIK MYDEEN
head and assistant professor bba sadakathullian appa college tirunelveli
Mobile No. : 9442082638, Email ID : sheiksatwanll@gmail.com
 2. DR A AROCKIADASS
associate professor department of commerce st xavier college tirunelveli
Mobile No. : 9443419480, Email ID : aruldosd@gmail.com

10/1/18
ASST

10/1/18
SUPDT

10/1/18
AR

K. Senthamarai Kannan
10/1/18
DIRECTOR



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	DY. S. MAHADEVAN, ASSOCIATE PROFESSOR & HEAD, DEPARTMENT OF TAMIL. STAFF ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	THE PRINCIPAL, SARAH TUCKER COLLEGE (AUTONOMOUS) TIRUNELVELI.
3	Name of the Collaborating Organization	:	SARAH TUCKER COLLEGE (AUTONOMOUS), TIRUNELVELI.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other Reports
6	Period of Collaboration	:	From : 20.3.2018 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No ✓
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty ✓	

TINNEVELLY DIOCESAN TRUST ASSOCIATION

SARAH TUCKER COLLEGE (AUTONOMOUS), TIRUNELVELI

Tamilnadu, India - 627 007
Nationally Assessed and Re-accredited with 'A' Grade
Estd :1895



Usha Godwin MSc PhD

PRINCIPAL

☎ 0462 - 2530946

E-mail : sarahtucker95@rediffmail.com

It was 24/3/2018

12.03.2018

To

Dr. Mahadevan
Assistant Professor and Head
Department of Tamil
Sathakathulla Appa college
Tirunelveli.

Dear Sir/Madam,

We are happy to inform you that you have been appointed as University Nominee/~~Subject Expert/Alumnae Representative/Industrialist~~ for the Board of Studies meeting of the Tamil Department in our college. Kindly make it convenient to attend the meeting on 20th March 2018 at 2.00 PM

With Regards

Yours Sincerely

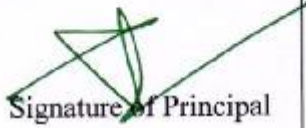
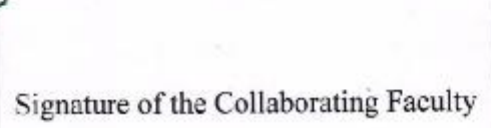
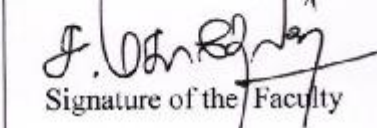
Usha Godwin

PRINCIPAL

PRINCIPAL
SARAH TUCKER COLLEGE
(AUTONOMOUS)
TIRUNELVELI - 627 007.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	Dr. A. Suruliandi Controller of Examinations.
3	Name of the Collaborating Organization	:	Manonmaniam Sundaranar Tirunelveli University,
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	other Reports
6	Period of Collaboration	:	From : 8.5 2018 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	

3.7.1/Collaborative Activities/2017-18/52

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்

MANONMANIAM SUNDARANAR UNIVERSITY

Abishekapatti, Tirunelveli - 627 012



Dr. A. Suruliandi

Phone-2322970(0)

Controller of Examinations

Ref: MSU/COE/CV/VAL/UG/PG/Apr-18

04/05/2018

To

77 S MAHADEVAN

DEPT. OF TAMIL

SADAKATHULLAH APPA COLLEGE

RAHMATHI NAGAR

TIRUNELVELI - 627 011

Sir/Madam,

Sub: University Examinations-UG/PG-Apr18-UG/PG Valuation-
Appointment of Examiners-Orders-reg.

I am by direction to inform you, that you are appointed as Examiner for the Valuation of UG/PG Degree Examinations of Apr-18. Hence you are requested to attend the Central Valuation work as detailed below and go through the Guideline and adhere to the conditions noted here under :

Position	: ADDL. Examiner
Name of the Board	: UG PART-I TAMIL
Date of Commencement of Valuation	: 08/05/2018
Valuation Venue	: M.S. UNIVERSITY CAMPUS, TIRUNELVELI

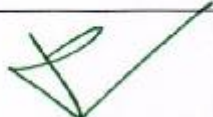
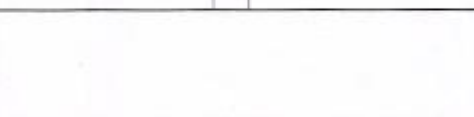
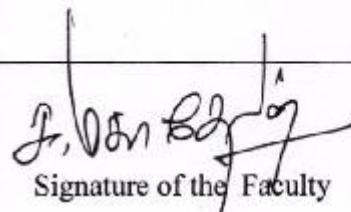
Controller of Examinations

Conditions and Guidelines to the Examiners :

1. Please note that Valuation Duty is Mandatory. If the offer is not accepted without valid reasons the name of the Examiners will be removed from the seniority list and the individual will be debarred from all University assignments.
2. Examiners who are on Deputation/Lien/Medical Leave/under FIP/under Disciplinary Action/not in Service in the Colleges concerned and who have not handled the said subject are requested to ignore this order
3. Valuation Hours : 9.30 a.m to 4.30 p.m.
4. Examiners are requested to value all the answer scripts allotted to them on the same day and return them alongwith OMR Sheet on the same day itself.
5. Examiners should take utmost care while entry of individual marks, total marks, shading of total marks in the 'C' portion of the each answer scripts and put the signature without Fail.
6. Ensure Barcode Sticker Number affixed on the answer script cover and EV cover are same
7. Ensure the Subject Code mentioned on the Cover(A) and in the answer script inside the cover are same.
8. Ensure 'C' portion of the answer scripts are teared off and verify the number of answer scripts and number of OMR sheets are equal.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	Dr. A. Kanthasamy Asso. Professor & H.O.D. of Tamil,
3	Name of the Collaborating Organization	:	Kamaraj College, Thoothukudi.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Dc member
6	Period of Collaboration	:	From : 8.3.2018 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes/No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	

Dr. A. KANTHASAMY, M.B.A., M.Sc., Ph.D., M.A., M.Phil., Ph.D.,
Asso. Professor & H.O.D. of Tamil,
Kamaraj College,
Thoothukudi - 3.
Ph.: 0461-2375988.
Cell: 99443 86707



Raj Bhavan,
1D/266, 2nd Street,
V.M.S.Nagar (South),
Meelavittan Road,
Thoothukudi - 2.
Ph.: 0461-2347282

Date: 26.02.2018

To

Dr. K. SENTHAMARAI KANNAN Avl,

Director - Research,
Manonmaniam Sundaranar University,
Tirunelveli.

Sr.

Sub: Conduct of Doctoral Committee meeting for Ph.D.- Tamil Scholar
Mr. E.M. Masanamuthu - date fixation - reg.

As advised by you, we are fixing 08.03.2018 is the convenient date to conduct the Doctoral Committee meeting for my Ph.D.-Tamil Scholar Mr. E.M. Masanamuthu at Tamil Research Centre, M.D.T. College, Tirunelveli

This has been informed to the Doctoral Committee members Prof. Dr. N. Kandammal, HOD of Tamil, A.P.C. Mahalakshmi College for Women, Thoothukudi, Prof. Dr. Mahadevan, HOD of Tamil, Sadhakathullah Appa College, Tirunelveli, Prof. Dr. Chellappa, HOD of Tamil, M.D.T. College, Tirunelveli, Prof. Dr. Muthulakshmi, Asst. Professor, M.D.T. College, Tirunelveli and the others concerned about the Doctoral Committee meeting..

This is for your kind information and further action.

Thanking you

Yours faithfully,

Copy to

Dr. N. Kandammal, A.P.C. Mahalakshmi College for Women, Thoothukudi,
Dr. Mahadevan, HOD of Tamil, Sadhakathullah Appa College, Tirunelveli,
Dr. Chellappa, HOD of Tamil, M.D.T. College, Tirunelveli,
Dr. Muthulakshmi, Asst. Professor, M.D.T. College, Tirunelveli



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The correspondent, Annai Hajira Women's College, Melapalayam, Tirunelveli.
3	Name of the Collaborating Organization	:	Annai Hajira Women's College, Melapalayam, Tirunelveli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other Reports
6	Period of Collaboration	:	From : 26.5.2018 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



Annai Hajira Women's College

(A Unit of As-Sathiq Educational Society)

College Road (Via-near V.S.T. Pallivasal Road)

MELAPALAYAM, TIRUNELVELI - 627 005.

Er.S.K.Kutha Mohamed B.E

22.05.2018

Correspondent

பெற்றநர்

Dr.S.Mahadevan

Associate Professor in Tamil & HOD

Sadakathullah Appa College

Tirunelveli - 11

Sir,

எங்களது கல்லூரியில் 2018-19 ஆம் கல்வியாண்டிற்கு (Tamil) தமிழ் துறையில் தேவையான பேராசிரியைகளை நியமனம் செய்வதற்காக கமிட்டியில் தாங்களை நியமித்து உள்ளோம்.

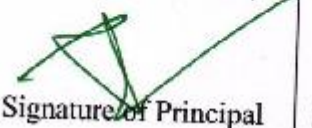
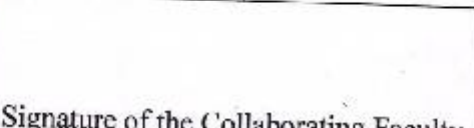
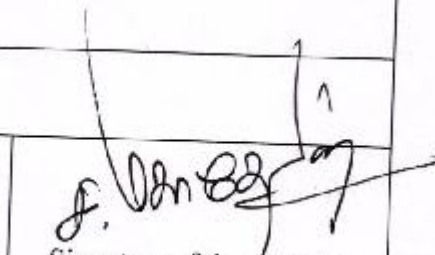
தாங்கள் 26.05.2018, 3.000 மணியளவில் கல்லூரிக்கு வருகைத் தந்து பல்கலைக் கழக விதிமுறைப்படி பேராசிரியைகளை தேர்வு செய்து கொடுக்குமாறு அன்புடன் கேட்டுக் கொள்கிறேன்.

தங்கள் அன்புள்ள

Dr. S. Mahadevan
ஒப்பிக் கொண்டதற்கான ஏகயொப்பம்



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTAC1
2	Name of the Collaborating Faculty with Designation	:	Prof. S. Muthusamy, Director - Research.
3	Name of the Collaborating Organization	:	Bharathidasan University, Tiruchirappalli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other Reports
6	Period of Collaboration	:	From : 10.4.18 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	



For Externals

BHARATHIDASAN UNIVERSITY
PALKALAIKERUR, TIRUCHIRAPPALLI-620 024
TAMIL NADU, INDIA

Prof. S. MUTHUSAMY
Director - Research

Phone : 0431-2407016
E-mail: ressec@bdu.ac.in

Ref. Number: 8132 /Ph.D./Dir./ Tamil/2405 Date :04.18.....

To

Dr. S. Mahadevan,
50, Maha Viji Ambagam,
Crescent Nagar, K.T.C. Nagar,
Tirunelveli - 627 011

Sir/Madam

Sub: Ph.D. - Evaluation - Thesis dispatched - Confidential - Reg.
Ref: Your letter / E-mail dated: 10.04.18

I thank you for accepting the offer to evaluate the Ph.D. Thesis entitled on

.....
Submitted by Mr./Ms. ... **B. Raja. Lakshmi (Tamil)**

I am herewith forwarding a copy of Thesis and request you to adjudicate the same.
Please refer to the Instructions to the Examiners on the reverse. The report of the Thesis may kindly be sent to the **DIRECTOR - RESEARCH** directly **BY NAME** within **TWO MONTHS** from the date of receipt of the Thesis.
Scanned copies of the evaluation form and detailed evaluation report may be sent through email in advance to speed up the process.

Please treat this offer as strictly confidential.

Kindly acknowledge the receipt of this communication.

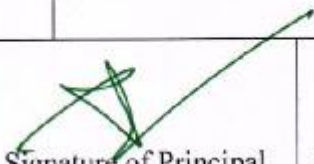
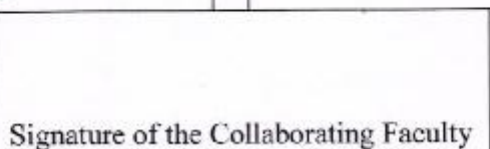
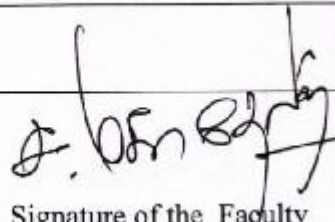
Yours sincerely

S. Muthusamy
20/4/18
DIRECTOR - RESEARCH

- Encl.: 1. Thesis
2. Check Sheet
3. Evaluation Report Sheet
4. Claim form



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The Principal, Sri Paramakalyani College, Alwarkurichi, Tirunelveli.
3	Name of the Collaborating Organization	:	Sri Paramakalyani College, Alwarkurichi, Tirunelveli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : 26.2.2018 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	

3.7.1/Collaborative Activities/2017-18/56



SRI PARAMAKALYANI COLLEGE

ALWARKURICHI - 627 412.

Tirunelveli District.

SELF FINANCING COURSES

Date: 27/02/2018

CERTIFICATE

This is to certify that **Dr. S.MAHADEVAN** Head & Associate professor of Tamil, Sadakathullah appa College , Palayamkottai has acted as a resource person *Tamil Association Day Celebration (தமிழ்மன்ற விழா)* on Tamil held on 26th February 2018 organized by Department of Tamil , Sri Paramakalyani College (SF) Alwarkurichi-627412.


(Dr.R. VENKATARAMAN)

PRINCIPAL



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil. Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The Principal, Govindammal Aditanar College For Women, Tiruchendur.
3	Name of the Collaborating Organization	:	Govindammal Aditanar College For Women, Tiruchendur.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From: 1-2, 2018. To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



STD Code : 04639
Office : 242184
Principal : 243347
Residence : 245891

GOVINDAMMAL ADITANAR COLLEGE FOR WOMEN

(Re-accredited with B Grade by NAAC)

TIRUCHENDUR - 628 215.

website : www.gacw.in

gacw@aei.edu.in


Mrs. P. JEYANTHI M.Sc., M.Phil., Ph.D., P.G.D.C.A.,

PRINCIPAL

Date :
01.02.2018

CERTIFICATE

This is to certify that **Dr. S. Mahadevan,**
M.A., M.Phil., Ph.D., Head of the Department of Tamil,
Sadakathullah Appa College, Tirunelveli has delivered a
guest lecture on the topic “தமிழ் இனி...” is conducted by
the Department of Tamil of our college on 01.02.2018.


Principal
Govindammal Aditanar college for Women
Tiruchendur.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	Dr. R. Sivasankari, Associate Professor of Tamil,
3	Name of the Collaborating Organization	:	Rani Anna Govt women's college, Tirunelveli.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : 29.12.2017 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No ✓
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

ராணி அண்ணா அரசு மகளிர் கல்லூரி
திருநெல்வேலி - 8.
தமிழ் உயராய்வு மையம்
நினைவூட்டுக் கடிதம்

அனுப்புநர்

இரா. சிவசங்கரி,
இணைப் பேராசிரியர்,
தமிழ்த்துறை,
ராணி அண்ணா அரசு மகளிர் கல்லூரி,
திருநெல்வேலி - 8.
Email : nakkannamam@gmail.com Cell : 8220463261

பெறுநர்

க. மகாதேவன்,
இணைப் பேராசிரியர் மற்றும் தலைவர், தமிழ்த்துறை,
சதக்கத்துல்லா அப்பா கல்லூரி,
பாளையங்கோட்டை, திருநெல்வேலி.

மதிப்பிற்குரியர்,

வணக்கம்!

செம்மொழித் தமிழாய்வு மத்திய நிறுவன நிதி நல்கையுடன் திருநெல்வேலி, ராணி அண்ணா அரசு மகளிர் கல்லூரி தமிழ்த்துறையில் எதிர்வரும் டிசம்பர் மாதம் 27ஆம் நாள் முதல் 29ஆம் நாள் வரை (27.12.2017 - 29.12.2017) மூன்று நாட்கள் "சங்க கால மக்களின் பால் உறவுச் சிந்தனைகளும் சமூக ஒழுங்கும்" எனும் பொருளில் கருத்தரங்கம் நடைபெற உள்ளது.

கருத்தரங்கில் தாங்கள் 29.12.2017 நாளில் 11.30 நேரத்தில்

செம்மொழித் தமிழாய்வு மத்திய நிறுவன நிதி நல்கையுடன்
திருநெல்வேலி, ராணி அண்ணா அரசு மகளிர் கல்லூரி தமிழ்த்துறையில்
எதிர்வரும் டிசம்பர் மாதம் 27ஆம் நாள் முதல் 29ஆம் நாள் வரை
(27.12.2017 - 29.12.2017) மூன்று நாட்கள் "சங்க கால மக்களின் பால் உறவுச்
சிந்தனைகளும் சமூக ஒழுங்கும்" எனும் பொருளில் கருத்தரங்கம் நடைபெற உள்ளது.
என்னும் பொருள்மையில் கருத்தரங்க ஆய்வுரை வழங்கிட இசைவு தந்துள்ளீர்கள். அதற்கு மிக்க நன்றி.

கருத்தரங்கத் தொடக்க நாளிலேயே ISBN எண்ணுடன் கட்டுரைகள் நூலாக்கம் செய்யப் பெற்று நூல் வெளியிடப்பட உள்ளது. அதற்கு வாப்பாக தாங்கள் தங்கள் ஆய்வுக் கட்டுரையைப் பத்து பக்கங்களுக்கு மிகமல் 08.11.2017-க்குள் தவறாமல் வன் மற்றும் மென் படியுடன் (Soft copy & hard copy) பாமினி எழுத்துருவில் அனுப்பித் தருமாறு வேண்டுகிறேன். கட்டுரை சமூகவியல், உளவியல், மானிடவியல் ஆகிய அணுகுமுறைகளில் அமைவது நலம். மின்திறப்புள்ளி வழங்கல் எதிர்பார்க்கப்படுகிறது (Power point Presentation).

நன்றி!

இடம் : திருநெல்வேலி
நாள் : .11.2017

அன்புடன்

(இரா. சிவசங்கரி)

Dr. R. SIVASAN
Associate Prof.
Dept of Te.
Ram Anna Govt. Art.
TRUNELVELI



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The H.O.D. of Tamil, Nazareth Margoschis College Pillaiyanmanai.
3	Name of the Collaborating Organization	:	Nazareth Margoschis College, Pillaiyanmanai.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : 18.12.2017 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes/No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



நாசரேத் மர்காஷிஸ் கல்லூரி, பிள்ளையன்மனை
பொன் விழா ஆண்டை முன்னிட்டு
தமிழ்த்துறை மற்றும் உள்தர உறுதிப்படுத்தும் குழு
நாசரேத் - தமிழ்நாடு மொக்கன்டைல் வங்கி இணைந்து நடத்தும்
பயிலரங்கு

“பழந்தமிழர் வாழ்வியல் நெறிகள்”

தொடக்க விழா

நிகழ்வன

நேரம் : காலை 10:00

நாள் : 18.12.2017

இடம் : கருத்தரங்ககூடம்

1. இறை வணக்கம்
2. தமிழ்த்தாய் வாழ்த்து
3. வரவேற்புரை
4. முன்னிலை
5. தலைமை
6. வாழ்த்துரை
7. சிறப்பு விருந்தினர்கள்
8. நன்றியுரை
9. சிறப்புரை

முனைவர் இரா. கலையரசி

முனைவர் S. அந்தோணி செல்வகுமார்

முனைவர் S. அருள்ராஜ் பொன்னுதுரை

திருமிகு. S.D.K. ராஜன்

முனைவர் V. பாஸ்கர் ராஜபால்

முனைவர். A. மேகஸ்வெல் சாமுவேல்

திரு. J. ஜெபச்சந்திரன்

திரு. G.R. பொன்சேகர் ஞானதுரை

முனைவர் A. பெரியநாயகம் ஜெயராஜ்

முனைவர் A. கந்தசாமி

அமர்வுகள்

முதல் அமர்வு

இரண்டாம் அமர்வு

முனைவர் S. மகாதேவன்

முனைவர் A. வெலிங்டன் பிரான்சிஸ் பிரபாகர்

நிகழ்ச்சித் தொகுப்பு

பேரா. S. ராஜலக்ஷ்மி



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr.S.MAHADEVAN, ASSOCIATE PROFESSOR & HEAD, DEPARTMENT OF TAMIL STAFF ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	THE PRINCIPAL, SRI SARADA COLLEGE OF EDUCATION FOR WOMEN, ARIYAKULAM, TIRUNELVELI.
3	Name of the Collaborating Organization	:	SRI SARADA COLLEGE OF EDUCATION FOR WOMEN, ARIYAKULAM, TIRUNELVELI.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : 13.10.2017 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No ✓
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



SRI SARADA COLLEGE OF EDUCATION FOR WOMEN

(Accredited with 'B' Grade by NAAC)

SARADA NAGAR, ARIYAKULAM, MAHARAJA NAGAR (P.O)TIRUNELVELI - 627 011. TAMILNADU

E-Mail : saradaeducation@gmail.com Website : <http://www.saradacollegeofeducation.com>

13.10.2017

CERTIFICATE

This is to certify that **Dr.S.MAHADEVAN**, Head & Associate Professor of Tamil, Sadakathullah Appa college, Tirunelveli has served as the Chief Guest on the inauguration of the Subject Clubs and delivered a Lecture on the "**Importance of Subject Clubs in Empowering students**" held at Sri Sarada College of Education for Women, Tirunelveli on 13th October 2017.



D. Anand
13/10/17
PRINCIPAL
Sri Sarada College Of Education For women
TIRUNELVELI - 11.




Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil. Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	Dr. H. Shobana, Assistant Professor,
3	Name of the Collaborating Organization	:	PGT & Research Dept of Tamil, Govt. Arts College, Udhagamandalam.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other Reports
6	Period of Collaboration	:	From : 6.10.2017 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No ✓
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

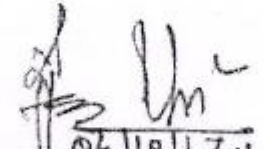
GOVERNMENT ARTS COLLEGE, UDHAGAMANDALAM

ATTENDANCE CERTIFICATE

This is to certify that **Dr. S. Mahadevan** Professor and Head, Department of Tamil, Sadakathulla Appa College, Thirunelveli attended the Ph.D open Viva- voce examination of **Mrs. B. Narmatha** under the Guidance of **Dr.H.Shobana**, as an external examiner on **06.10.2017** at Government Arts College, Udhagamandalam.


DR. S. MAHADEVAN
06/10/17

சென்னை, 06.10.2017
தமிழ் அறிவியல் துறைத் தலைவர்
சடகாத்தல்லா அப்பா கல்லூரி, திருநெல்வேலி
தொலைபேசி: 043002


06/10/17
PRINCIPAL File

Dr. A. MURUGESAN Ph.D.,
HEAD
PG & Research Dept. of Tamil,
Govt. Arts College,
Udhagamandalam-643 002



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	DR.S. MAHADEVAN, ASSOCIATE PROFESSOR & HEAD, DEPARTMENT OF TAMIL, STAFF ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	DY. K. REVATHI PROFESSOR & DEAN
3	Name of the Collaborating Organization	:	VIT UNIVERSITY VELLORE, CHENNAI.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : 31.8.2017 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes/No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



SCHOOL OF SOCIAL SCIENCES AND LANGUAGES

31.08.2017

ATTENDANCE CERTIFICATE

This is to certify that **Dr. Soundara Mahadevan**, Associate Professor & Head, Department of Tamil, Sadakathullah Appa College, Rahmath Nagar, Tirunelveli has given a Workshop on "Motivation" on 31.08.2017 at the School of Social Sciences and Languages, VIT University, Vellore.

Dr. K. Revathi

Professor & Dean

Dean-SSL
VIT University
Vellore -632 014



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The Principal, Scott cristian college, (Autonomous), Nagercoil.
3	Name of the Collaborating Organization	:	Scott cristian college, (Autonomous), Nagercoil.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : 18.8.2017 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No ✓
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



SCOTT CHRISTIAN COLLEGE
(AUTONOMOUS)
(Reaccredited with A grade by NAAC)
Nagercoil - 629 003



Dr. M. EDWIN GNANADHAS, Ph. D.,

Principal

E-mail : sccprincipal@yahoo.com
Fax : 04652 - 235240
Personal : 04652 - 235240
9488272021

Kanniyakumari District
Tamil Nadu, India
Website : www.scotchchristian.org
Office : 04652 - 231807
9600989900

ஆகஸ்ட் 18, 2017

வருகை சான்றிதழ்

பேராசிரியர் சவுந்தர மகாதேவன், தலைவர், தமிழ்த் துறை, சதக்கதுல்லா அப்பா கல்லூரி, பாளையங்கோட்டை என்பார் நாகர்கோவில் ஸ்காட் கிறிஸ்தவக் கல்லூரி தமிழ்த்துறை சார்பாக 18.08.2017 அன்று நடைபெற்ற சிறப்பு கருத்தரங்கத்தில் கலந்து கொண்டு சிறப்புரையாற்றினார்.




முதல்வர்
PRINCIPAL
SCOTT CHRISTIAN COLLEGE
(Autonomous)
NAGERCOIL-629 003



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan.
			Associate Professor & Head, Department of Tamil.
			Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The Registrar,
			Manonmaniam Sundaranar
			University, Tirunelveli
3	Name of the Collaborating Organization	:	Sarah Tucker college (Autonomous),
			Palayamkottai.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other Reports
6	Period of Collaboration	:	From : 16.3.2017 To: 15.3.2019
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்
MANONMANIAM SUNDARANAR UNIVERSITY
(RE-ACCREDITED WITH B GRADE BY NAAC)

Dr. A. JOHN DE BRITTO
REGISTRAR

ABISHEKAPATTI
TIRUNELVELI-627 012

MSU/R/BOS-Nominees/STC/2017

21.03.2017

To

Dr. Mahadevan
Associate Professor & HoD of Tamil
Sadakathullah Appa College
Palayamkottai.

Sir,

Sub: Sarah Tucker College (Autonomous), Palayamkottai – Nominated as Board of
Study member – intimated - reg.

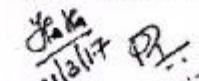
I am by direction to inform that, you have been nominated as the member of Board of
study in Tamil at Sarah Tucker College (Autonomous), Palayamkottai for a period of two
years from 16.03.2017 to 15.03.2019.

You shall be eligible for 1¼ first class railway fare towards T.A. and D.A. at
University rates for attending the meeting of the above committee.

I request you to send your acceptance to the undersigned with a copy marked to the
Principal of the above college.

Yours faithfully,


21/03/17
REGISTRAR


21/03/17
21/3/17



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

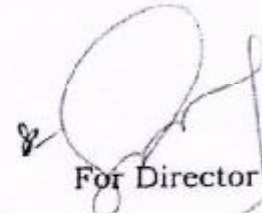
1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The Director, State Council of Educational Research and Training Chennai - 6.
3	Name of the Collaborating Organization	:	State Council of Educational Research and Training Chennai - 6.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Other Reports
6	Period of Collaboration	:	From : 10-10-2017 To:
7	Financial Involvement (if any)	:	—
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

**STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING
CHENNAI-6**

ATTENDANCE CERTIFICATE

This is to certify that Dr/Mr/Ms **S. MAHADEVAN** working
as HOD of TAMIL, SADAKATHULLAH APPA COLLEGE participated
in "Sub-Committee Meeting on Evaluation Reforms" from 10-10-2017
to ONE DAY at SIEMAT Hall, SCERT, Chennai.




For Director 10/10/17



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. S. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	The Principal, A.P.C. Mahalaxmi College for women, Tuticorin.
3	Name of the Collaborating Organization	:	A.P.C. Mahalaxmi College for women, Tuticorin.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC member
6	Period of Collaboration	:	From : 2.2.2018 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
		Signature of the Faculty	

3.7.1/Collaborative Activities/2017-18/66

A.P.C. MAHALAXMI COLLEGE FOR WOMEN,

[Re-Accredited with 'A' Grade by NAAC CGPA 3.09 out of 4.0

TUTICORIN - 628002.

Tmt. Dr. R.C. Vasuki, M.A., Ph.D., D.G.T.
Principal

☎: 2345655

Email ID : principal@apcmcollege.ac.in

Website : www.apcmcollege.ac.in

02.02.2018


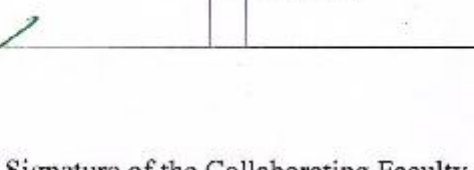
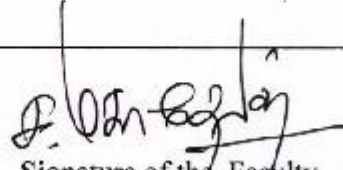
ATTENDANCE CERTIFICATE

This is to certify that **Dr.S.Mahadevan,** Associate Professor of Tamil and The Head of the Department, Sadakathullah Appa College, Tirunelveli. Attended the Doctoral Committee Meeting in our college on 02.02.2018.

R.C.Vasuki
PRINCIPAL.



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. s. Mahadevan, Associate Professor & Head, Department of Tamil, Staff ID - ATTA01
2	Name of the Collaborating Faculty with Designation	:	Dr. A. kanthasamy, Asso. Professor & H.O.D. of Tamil,
3	Name of the Collaborating Organization	:	Kamaraj College, Thoothukudi.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Dc member
6	Period of Collaboration	:	From: 20.4.2018 To:
7	Financial Involvement (if any)	:	-
8	Proof Attached	:	Yes/No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	

Dr. A. KANTHASAMY, M.B.A., M.Sc., Ph.D., M.A., M.Phil., Ph.D.,
Asso. Professor & H.O.D. of Tamil,
Kamaraj College,
Thoothukudi - 3.
Ph.: 0461-2375988.
Cell: 99443 86707



Raj Bhavan,
1D/266, 2nd Street,
V.M.S.Nagar (South),
Meelavittan Road,
Thoothukudi - 2.
Ph.: 0461-2347282

Date: 16.04.2018

To

Dr. K. SENTHAMARAI KANNAN A/L,

Director - Research,
Manonmaniam Sundaranar University,
Tirunelveli.

Sir,

Sub: Conduct of Doctoral Committee meeting for Ph.D.- Tamil Scholar
Mrs. R. Shunmuagalakshmi - reg.

As advised by you, we are fixing 20.04.2018 Friday as the convenient date to conduct the Doctoral Committee meeting for my Ph.D.-Tamil Scholar Mrs. R. Shunmuagalakshmi at Sarah Tucker College, Palayamkottai, Tirunelveli.

This has been informed to the Doctoral Committee members Prof. Dr. Mahadevan, HOD of Tamil, Sadhakathullaappah College, Palayamkottai, Prof. Dr. R. Hariharan, Associate Professor, Department of Tamil, P.M.T. College, Melaneelithanallur and the others concerned about the Doctoral Committee meeting.

This is for your kind information and further action.

Thanking you

Yours faithfully,

Copy to

Prof. Dr. S. Mahadevan, HOD of Tamil, Sadhakathullah Appa College, Tirunelveli.

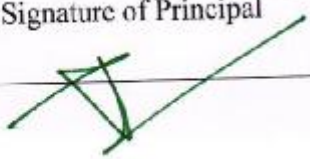
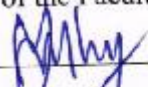
Prof. Dr. R. Hariharan, Associate Professor, Department of Tamil, P.M.T. College, Melaneelithanallur, Sankarankovil Taluk.

Prof. Dr. S. Mabel Jothirani, Asso. Professor of Tamil, Sarah Tucker College, Tirunelveli-7



Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr.M.I.Zahir Hussain Assistant Professor Department of Zoology Sadakathullah Appa College (Autonomous) Tirunelveli – 627 011 Staff ID: ATZO02
2	Name of the Collaborating Faculty with Designation	:	Dr. K. Sahayaraj Head and Associate Professor in Zoology, Former Dean of Sciences, Department of Zoology St. Xavier's College (Autonomous), Palayamkottai – 627 002
3	Name of the Collaborating Organization	:	St. Xavier's College (Autonomous), Palayamkottai – 627 002
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest Lecture
6	Period of Collaboration	:	From : June 2017 to May 2018
7	Financial Involvement (if any)	:	
8	Proof Attached	:	Yes
Signature of Principal		Signature of the Collaborating Faculty	
			



DEPARTMENT OF ZOOLOGY
St. Xavier's College (Autonomous)

(Recognised as 'College with Potential for Excellence' by UGC)

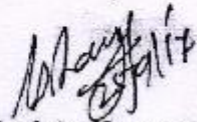
(Re-accredited by NAAC with "A" Grade with a CGPA of 3.50)

Palayamkottai - 627 002 Tamil Nadu

25.09.2017

Certificate of Appreciation


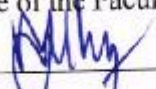
This certificate is presented to **DR. M. I. ZAHIR HUSSAIN**, Assistant Professor, Department of Zoology, Sadakathullah Appa College, for giving "Hands-on training on production of vermicompost" to the farmers in Perumal Nagar Village, during the STAND (Student Training and Action for Neighbourhood Development) Camp organized by the Department of Zoology on 24th September 2017 at Perumal Nagar, Tirunelveli District.


Head of the Department



Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr.M.I.Zahir Hussain Assistant Professor Department of Zoology Sadakathullah Appa College (Autonomous) Tirunelveli - 627 011 Staff ID: ATZO02
2	Name of the Collaborating Faculty with Designation	:	Dr.M.Maruthi Kalaiselvi Associate Professor and Head Department of Zoology PG and Research Department of Zoology Sri Parasakthi College for women Courtallam -627802
3	Name of the Collaborating Organization	:	Sri Parasakthi College for women Courtallam -627802
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Academic
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Guest lecture
6	Period of Collaboration	:	From : June 2017 to May 2018
7	Financial Involvement (if any)	:	
8	Proof Attached	:	Yes
Signature of Principal		Signature of the Collaborating Faculty	
			
		Signature of the Faculty	



SRI PARASAKTHI COLLEGE FOR WOMEN,

COURTALLAM, Tirunelveli District - 627 802.

(An Autonomous College of the Manonmaniam Sundaranar University)
(Under the Management of H.R. & C.E. Dept.)

Dr. (Tmt.) K. Thiripurasundari, M.Com., M.Phil., Ph.D., M.B.A.
Principal

24.01.2018

ON DUTY

This is to certify that **Dr.Zahir Hussain,** Assistant Professor, Department of Zoology, Sadakathullah Appa College, M.S.University, Tirunelveli has been the Resource Person for International Seminar on 'Aquaculture – Current and future prospects' on 24.01.2018 organized by the PG and Research Department of Zoology, Sri Parasakthi College for Women, Courtallam and he delivered a lecture on 'Global Trend in culture and trade of ornamental fishes'.

K. Thiripurasundari 24.1.18
PRINCIPAL
Sri Parasakthi College for Women
Courtallam-627802



Sadakathullah Appa College (Autonomous)

Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr.M.I.Zahir Hussain Assistant Professor Department of Zoology Sadakathullah Appa College (Autonomous) Tirunelveli – 627 011 Staff ID: A1ZO02
2	Name of the Collaborating Faculty with Designation	:	Dr. K. Sahayaraj Director Crop Protection Research Centre (APRC) Department of Advanced Zoology and Biotechnology St. Xavier's College (Autonomous), Palayamkottai – 627 002
3	Name of the Collaborating Organization	:	St. Xavier's College (Autonomous), Palayamkottai – 627 002
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC member
6	Period of Collaboration	:	From : June 2017 to May 2018
7	Financial Involvement (if any)	:	
8	Proof Attached	:	Yes
Signature of Principal		Signature of the Collaborating Faculty	

Crop Protection Research Centre (CPRC)

Department of Advanced Zoology and Biotechnology,

St. Xavier's College (Autonomous),

Palayamkottai - 627 002, Tamil Nadu, India.



Dr.K.SahayaraJ, M.Sc., M.Phil., Ph.D., PGDCA

Director

Ref. No:

Date :

30.01.2018

KSR/Ph.D./DocComMett/01/2018

To

Dr. M. ZAHIR HUSSAIN,

Assistant professor,

Department of Zoology,

Sadakathullah Appa College,

Palayamkottai - 627011.

Dear Sir,

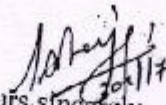
Sub: Conduct Doctoral Committee Meeting for Mr. K. Madasamy (Reg. No. 18111282011001) - reg

Ref. No. MSU/RES/RT/ January 2018 dated January 10, 2018.

Proposed title of the thesis: Entomopathogenic Fungi - Strain Improvement and Utilized for Pest Management.

We would like to conduct the first Doctoral Committee Meeting of Mr. K. Madasamy (Reg. No. 18111282011001) on 08.01.2018 at 2.00 p.m. in the Department of Zoology. Kindly make you convenient to attend the meeting.

Thanking you,


Yours sincerely,

K. SahayaraJ



3.7.1/Collaborative Activities/2017-18/71

Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr.M.I.Zahir Hussain Assistant Professor Department of Zoology Sadakathullah Appa College (Autonomous) Tirunelveli – 627 011 Staff ID: ATZO02	
2	Name of the Collaborating Faculty with Designation	: Dr. K. Sahayara Head and Associate Professor in Zoology, Former Dean of Sciences, Department of Zoology St. Xavier's College (Autonomous), Palayamkottai – 627 002	
3	Name of the Collaborating Organization	: St. Xavier's College (Autonomous), Palayamkottai – 627 002	
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research	
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: DC member	
6	Period of Collaboration	: From : June 2017 to May 2018	
7	Financial Involvement (if any)	:	
8	Proof Attached	: Yes	
Signature of Principal		Signature of the Collaborating Faculty	Signature of the Faculty



ST. XAVIER'S COLLEGE (Autonomous)
(Re-accredited with "A" Grade with a CGPA of 3.50 by NAAC)
(Recognized as "College with Potential for Excellence" by UGC)
PALAYAMKOTTAI
TAMILNADU - 627 002.

ON DUTY CERTIFICATE

Certified that the following staff member was on duty in this institution as specified below :

Name : ... **Dr. M. ZAHIR HUSSAIN**

Designation: ... Assistant Professor, Zoology

College : ... Sadakathullah Sippa College, Palayamkottai 627011

Date : ... 08/02/2018

Purpose : ... First Doctoral Committee Meeting

.....
.....

Date 08/02/2018


PRINCIPAL



3.7.1/Collaborative Activities/2017-18/72

Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	: Dr.M.I.Zahir Hussain Assistant Professor Department of Zoology Sadakathullah Appa College (Autonomous) Tirunelveli – 627 011 Staff ID: ATZO02	
2	Name of the Collaborating Faculty with Designation	: Dr.T.Pushpanathan Assistant Professor Department of Zoology St. Xavier's College (Autonomous), Palayamkottai – 627 002	
3	Name of the Collaborating Organization	: St. Xavier's College (Autonomous), Palayamkottai – 627 002	
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	: Research	
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	: DC member	
6	Period of Collaboration	: From : June 2017 to May 2018	
7	Financial Involvement (if any)	:	
8	Proof Attached	: Yes	
Signature of Principal		Signature of the Collaborating Faculty	Signature of the Faculty

3.7.1/Collaborative Activities/2017-18/72

TP/Ph.D/DocComMett/03/2018

01/03/2018

To

Dr.M.ZAHIR HUSSIAN

Assistant professor

Department of zoology

Sadakathulla Appa College

Palayamkottai- 627011.

Dear Sir,

Sub: Conduct Doctoral committee Meeting for MS.J.Selvarani (Reg. no: 18121282192008) - reg.

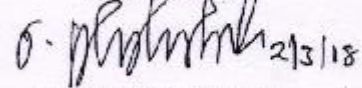
Ref. no: MSU/RES/RI/January 2018 dated January 10, 2018.

Proposed title of the thesis: *Isolation, identification and characterization of mosquitocidal and repellent compound from selected plant essential oils.*

We would like to conduct the first Doctoral Committee Meeting of MS. J. Selvarani (Reg. no: 18121282192008) on 05.03.2018 at 02:30pm in the department of Zoology. Kindly make you convenient to attend the meeting.

Thanking you

Yours sincerely

 2/3/18

T.PUSHPANATHAN

Dr. T. PUSHPANATHAN, Ph.D

Assistant Professor

Department of Zoology


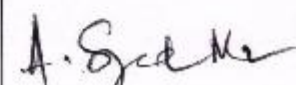
S. Xavier College (Autonomous)

Palayamkottai - 627002



3.7.1/Collaborative Activities/2017-18/73

Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. A. SYED MOHAMED Assistant Professor of Chemistry ATCH02	
2	Name of the Collaborating Faculty with Designation	:	Dr. C. Vedhi	
3	Name of the Collaborating Organization	:	Department of Chemistry, VOC College, Tuticorin, Tamilnadu, India	
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research	
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Paper published in the <i>Int. J. Adv. Sci. Eng. Vol.4 No.1 474-480 (2017)</i> 474 entitled "Identification of Potent Angiotensin Converting Enzyme 2 Inhibitors through Virtual Screening and Structure-Based Pharmacophore Design"	
6	Period of Collaboration	:	From : Jan. 2017 To: Dec. 2017	
7	Financial Involvement (if any)	:	No	
8	Proof Attached	:	Yes / No	
Signature of Principal		Signature of the Collaborating Faculty		Signature of the Faculty
				

Identification of Potent Angiotensin Converting Enzyme 2 Inhibitors through Virtual Screening and Structure-Based Pharmacophore Design

C. Zozimus Divya Lobo¹, A. Syed Mohamed^{1*}, C.Vedhi², S.V. Rajesh³, V. Aroulmoji⁴ and Gnanendra Shanmugam^{5*}

¹Department of Chemistry, Sadakathullah Appa College (Autonomous), Tirunelveli, Tamilnadu, India.

²Department of Chemistry, VOC College, Tuticorin, Tamilnadu, India

³Department of Botany, Vivekanandha college of Arts and Sciences (Autonomous), Tiruchengode, Namakkal, Tamilnadu.

⁴Center for Research & Development, Mahendra Educational Institutions, Namakkal-637503, Tamilnadu, India

⁵Department of Biotechnology, College of Life and Applied Sciences, Yeungnam University, Gyeongsan, South Korea.

RESEARCH ARTICLE

ABSTRACT: Angiotensin Converting Enzyme (ACE), a metallo-peptidase is the best known important drug target in the treatment of hypertension and responds to broad range ACE inhibitors such as Captopril. Whilst, many phytochemical compounds including alkaloids and flavonoids were also reported with anti-hypertensive activity. On the other hand, ACE2 is considered as an interesting new cardio-renal disease target as it is close and unique ACE homologue. In this scenario, the anti-hypertensive activities of 17 phytochemical compounds were analyzed through docking studies with ACE2. Also, the other ACE inhibitors with reported IC₅₀ values were considered for docking interactions and used as training set. Further, the best docked phytochemical compound Rosemarinic acid and the training set compounds with ACE inhibitor activity were used to design the pharmacophore and validated. The generated 3D pharmacophore is subjected to screen the compounds with the significant chemical features against May bridged database consisting of more than one lakh compounds and subsequently, the hit compounds were screened using various filters such as estimated activity, Lipinski's rule of five, and ADMET properties and resulted-Eight compounds. The anti-hypertensive activities of these 5 compounds with good fit values were selected for further docking studies with ACE2. The five compounds PD 00533, CD 01374, CD 04888, CD 01278 and BTB 04932 exhibited the best docking scores and also favors the necessary hydrogen bond interactions with in the activity site of ACE and thus identified as novel leads with anti-hypertensive activity.

KEYWORDS: Pharmacophore, Angiotensin Converting Enzyme, ACE inhibitors, ADMET, docking studies.

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1. INTRODUCTION

Hypertension and congestive heart failures are becoming epidemic throughout the world [1]. In recent years, the drastic increase in the number in the adult population of the world with hypertension was recorded and more than 20 million people were affected with heart failure. Angiotensin-converting enzyme 2 (ACE2) is a newly discovered membrane-bound aminopeptidase [2]. This enzyme has been proven to be critical in impacting cardiovascular and immune systems by 2 distinct physiologically important mechanisms. ACE2 catalyzes the production of vasodilatory peptides, including angiotensin 1 to 7 and thus is responsible in counterbalancing the potent vasoconstrictor effects of angiotensin II. This counterbalancing property of ACE2 is proposed to be important for the development of novel pharmacotherapy against hypertension and related cardiovascular diseases [3-4]. In the process of hypertension, ACE plays an important role in regulating blood pressure, and ACE inhibitors are considered to be one of the therapeutic methods for treating anti-hypertension. Angiotensin-converting enzyme is secreted in the lungs and kidneys by cells in the endothelium of blood vessels, and it is the part of the renin-angiotensin system (RAS). It indirectly increases

blood pressure by causing blood vessels to constrict by converting angiotensin-I to angiotensin-II [5-6]. Thus, the ACE considered as an ideal target for controlling blood pressures and heart failures and synthetic compounds are being used as ACE inhibitors to treat heart problems. These inhibitors inhibit the conversion (angiotensin-I to angiotensin-II), dilate the blood vessels and control the blood pressures. Several ACE inhibitors, including captopril, lisinopril, fosinopril and enalapril, are synthetic molecules which are clinically used as anti-hypertension agents [7].

In 1990 Paul Ehrlich [8] introduced pharmacophore as 'a molecular framework that carries (phoros) the essential features responsible for a drug's (pharmacon) biological activity'. The design of pharmacophore are necessary to reveal specific functional group that are optimal for the interactions which can trigger the potential targets either by inhibiting or enhancing the biological function of those receptors [9]. The generation of pharmacophore plays a crucial role in the drug discovery pipeline in term of time and cost. The crucial step in the design of pharmacophore involves the alignment of multiple ligands (training set) which can determine the essential chemical features that are essential for their bioactivity. The alignment of these multiple ligand can be achieved by superposing a set of active molecules [10]. In general, the pharmacophore

*Corresponding Author: science@gmail.com & asm2032@gmail.com

Received: 12.05.2017

Accepted: 10.06.2017

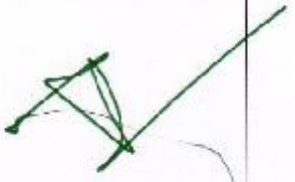
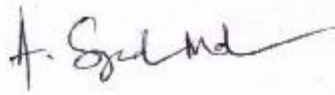
Published on: 27.07.2017

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Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. A. SYED MOHAMED Assistant Professor of Chemistry ATCH02
2	Name of the Collaborating Faculty with Designation	:	Dr. V. Aroulmoji
3	Name of the Collaborating Organization	:	<i>Centre for Research & Development, Mahendra Educational Institutions, Namakkal-637503, Tamilnadu, India</i>
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Paper published in the <i>Int. J. Adv. Sci. Eng. Vol.4 No.1 474-480 (2017) 474</i> entitled "Identification of Potent Angiotensin Converting Enzyme 2 Inhibitors through Virtual Screening and Structure-Based Pharmacophore Design"
6	Period of Collaboration	:	From : Jan. 2017 To: Dec. 2017
7	Financial Involvement (if any)	:	No
8	Proof Attached	:	Yes / No
Signature of Principal		Signature of the Collaborating Faculty	
			
Signature of the Faculty			

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C. Zozimus Divya Lobo¹, A. Syed Mohamed^{1*}, C.Vedhi², S.V. Rajesh³, V. Aroulmoji⁴ and Gnanendra Shanmugam^{5*}

¹Department of Chemistry, Sadakathullah Appa College (Autonomous), Tirunelveli, Tamilnadu, India.

²Department of Chemistry, VOC College, Tuticorin, Tamilnadu, India

³Department of Botany, Vivekanandha college of Arts and Sciences (Autonomous), Tiruchengode, Namakkal, Tamilnadu.

⁴Center for Research & Development, Mahendra Educational Institutions, Namakkal-637503, Tamilnadu, India

⁵Department of Biotechnology, College of Life and Applied Sciences, Yeungnam University, Gyeongsan, South Korea.

ABSTRACT: Angiotensin Converting Enzyme (ACE), a metallo-peptidase is the best known important drug target in the treatment of hypertension and responds to broad range ACE inhibitors such as Captopril. Whilst, many phytochemical compounds including alkaloids and flavonoids were also reported with anti-hypertensive activity. On the other hand, ACE2 is considered as an interesting new cardio-renal disease target as it is close and unique ACE homologue. In this scenario, the anti-hypertensive activities of 17 phytochemical compounds were analyzed through docking studies with ACE2. Also, the other ACE inhibitors with reported IC₅₀ values were considered for docking interactions and used as training set. Further, the best docked phytochemical compound Rosmarinic acid and the training set compounds with ACE inhibitor activity were used to design the pharmacophore and validated. The generated 3D pharmacophore is subjected to screen the compounds with the significant chemical features against May bridged database consisting of more than one lakh compounds and subsequently, the hit compounds were screened using various filters such as estimated activity, Lipinski's rule of five, and ADMET properties and resulted Eight compounds. The anti-hypertensive activities of these 5 compounds with good fit values were selected for further docking studies with ACE2. The five compounds PD 00533, CD 01374, CD 04888, CD 01278 and BTB 04932 exhibited the best docking scores and also favors the necessary hydrogen bond interactions with in the activity site of ACE and thus identified as novel leads with anti-hypertensive activity.

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In 1990 Paul Ehrlich [8] introduced pharmacophore as 'a molecular framework that carries (phoros) the essential features responsible for a drug's (pharmacoon) biological activity'. The design of pharmacophore are necessary to reveal specific functional group that are optimal for the interactions which can trigger the potential targets either by inhibiting or enhancing the biological function of those receptors [9]. The generation of pharmacophore plays a crucial role in the drug discovery pipeline in term of time and cost. The crucial step in the design of pharmacophore involves the alignment of multiple ligands (training set) which can determine the essential chemical features that are essential for their bioactivity. The alignment of these multiple ligand can be achieved by superposing a set of active molecules [10]. In general, the pharmacophore

*Corresponding Author: science@gmail.com & asm2032@gmail.com
Received: 12.05.2017 Accepted: 10.06.2017 Published on: 27.07.2017


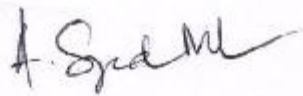
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3.7.1/Collaborative Activities/2017-18/75

Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr. A. SYED MOHAMED Assistant Professor of Chemistry ATCH02	
2	Name of the Collaborating Faculty with Designation	:	Dr. C. Vedhi	
3	Name of the Collaborating Organization	:	Department of Chemistry, VOC College, Tuticorin, Tamilnadu, India	
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research	
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	Co-guide	
6	Period of Collaboration	:	From : Jan. 2016 To: Dec. 2019	
7	Financial Involvement (if any)	:	No	
8	Proof Attached	:	Yes / No	
Signature of Principal		Signature of the Collaborating Faculty		Signature of the Faculty
				

MANONMANIAM SUNDARANAR UNIVERSITY
TIRUNELVELI-627 012, TAMIL NADU, INDIA

Dr. K.SENTHAMARAI KANNAN
DIRECTOR
Centre for Research

University Buildings,
Abishekapatti,
Tirunelveli - 627 012.

Ref:MSU/RES/Ph.D/VIVA/R-4/ 11512

17.04.2018

To

1. **Dr. A Syed Mohamed,** Guide Convener of Viva-voce Board
Assistant Professor of Chemistry,
Sadakathullah Appa College,
Rahmath Nagar, Tirunelveli - 627 011.
2. Dr.K.Pandian, Examiner of Viva - Voce Board
Associate Professor, Dept. of Inorganic Chemistry,
University of Madras,
Guindy Campus, Chennai - 600 025.
3. Dr.C.Vedhi, Co-Guide Member of Viva-voce Board
Assistant Professor of Chemistry,
V.O.C. College, Thoothukudi - 628 008.

Sir/Madam


Sub: Conduct of Ph.D. Public Viva-Voce Examination - Reg.

I am, by direction, to inform that you have been appointed as Convener/ Member for the Viva-Voce examination on the Ph.D. thesis entitled " **In - Silico Design and Development of Novel Potent ACE Inhibitors of Hypertension** " submitted by **Mr/Ms. C.Zozimus Divya Lobo** for the award of Doctor of Philosophy.

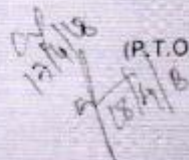
You are requested to conduct the viva-voce Examination at **V.O.C. College, Thoothukudi** on any one of the working day (**except Saturday, Sunday and Government holidays**) mutually convenient to all the members inclusive of guide & Co - Guide (if applicable) and submit the following to the undersigned immediately after the viva is over.

1. Detailed report along with the questions posed to the scholar on the Viva - Voce duly Signed by all Board members with seal.
2. Attendance Sheet in the proforma enclosed
3. Viva - Voce Fee of Rs.10,000/- Drawn in favour of the Registrar, Manonmaniam Sundaranar University payable at Tirunelveli issued by any Nationalised Bank (or) through Challan Indian Bank, M.S.University Branch (or) through Challan in State Bank of India, Power Jyothi Account to MSU A/c No. 32723806944.

Yours faithfully,

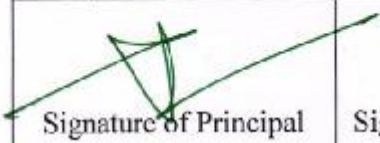
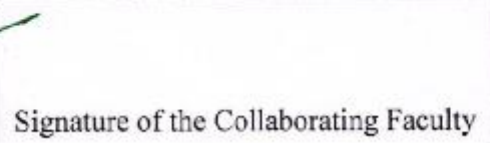
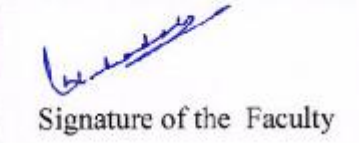

DIRECTOR

(P.T.O)


17/4/18



Sadakathullah Appa College (Autonomous)
Rahmath Nagar, Tirunelveli - 627011

1	Name of the Faculty with Designation, Staff ID	:	Dr.A.H Mohideen Badshah
			Assistant Professor of History
			Sadakathullah Appa College (Autonomous), Tirunelveli.
2	Name of the Collaborating Faculty with Designation	:	Dr. S. Murugavel
			Assistant Professor of History
			Rani Anna College, Tirunelveli
3	Name of the Collaborating Organization	:	Rani Anna College, Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / Student Exchange / Project / Internship / On-the Job Training)	:	Research
5	Nature / Details of Outcome (Guest Lecture / DC member / Co-guide / Project Reports / Other Reports/Publications)	:	DC Member for Ms. Mohamed Matheena .S Reg.no. : 17221191052005
6	Period of Collaboration	:	From : 2017 To: 2021
7	Financial Involvement (if any)	:	No
8	Proof Attached	:	Yes / No
 Signature of Principal		 Signature of the Collaborating Faculty	
		 Signature of the Faculty	

3.7.1/Collaborative Activities/2017-18/76

11/23/2017

MSU PWD Admission17221191052005



MANONMANIAM SUNDARANAR UNIVERSITY
CENTRE FOR RESEARCH
ABISHEKAPATTI, TIRUNELVELI - 627 012, TAMILNADU, INDIA



DR. K. SENTHAMARAI KANNAN
DIRECTOR

Date : November 23, 2017

REF : MSU/RES/R1/JUNE2017

Revised Ph.D., Programme Commencement Order

To

MOHAMMED MATHEENA S
38, JAMIA PALLIVASAL STREET, TOWN
Tamil Nadu, Tirunelveli, Pincode - 627000
Mobile No. : 9578841196, Email ID : matheenasindaadh2017@gmail.com

Sir/Madam,

Sub: Registration for doing Ph.D., programme - Date of Commencement of Research work -
Intimation - Reg

Ref: Counseling attended by the candidate.

With reference to the above, you are provisionally registered for Ph.D., Programme as detailed below :

1. Name of the Scholar : MOHAMMED MATHEENA S
2. Registration No. : 17221191052005
3. Discipline : History/History and Tourism
4. Gender : Female
5. Social Category (Community) : BCM
6. Nationality : INDIAN
7. PWD Status : Not Applicable
8. Admission Based On : M.Phil
9. Name of the Supervisor : A H MOHDEEN BADSHAH
10. Name of the Co-Supervisor : NIL
11. Mode : FULL TIME
12. Research Centre : Sadakathullah Appa College, Tirunelveli.
13. Date of Commencement : 10.09.2017
14. Proposed Title : MONUMENTS AND TOMBS OF HISTORICAL IMPORTANCE IN TIRUNELVELI DISTRICT
15. Doctoral Committee Members Details :
 1. DR M VAZEER AHAMED
H.O.D. OF HISTORY, SADAKATHULLAH APPA COLLEGE, TIRUNELVELI.
Mobile No. : 0, Email ID : NIL
 2. DR S MURUGAVEL
ASST. PROF. HISTORY, RANI ANNA COLLEGE, TIRUNELVELI.
Mobile No. : 0, Email ID : NIL

ASST

SUPOT

AR

DIRECTOR

Phone : 0462 - 2333741, 2338721, 9487999692, 9432907000, FAX: 2322973, Website : rnsuniv.ac.in
NOTE: Date of Commencement Order already issued shall be treated as Cancelled.

18-19 / 1
3.7.1/Collaborative Activities/2017-18/77



Dr. Odile Eisenstein
Member of the IAQMS
Member of the French Academy of
Science
Chair of 16-ICQC
icqc16@sciencesconf.org
<https://icqc16.sciencesconf.org/>

16th International Congress of Quantum Chemistry – June 18-23, 2018

Tuesday 23 April 2018

Dr. A. Syed Mohamed

Department of Chemistry and Molecular Modeling & Drug Design
Sadakathullah Appa College, Tirunelveli-11 Tamilnadu, India
Asm2032@gmail.com

Dear Dr. A. Syed Mohamed,

As the Chair of the 16th International Congress of Quantum Chemistry (16_ICQC), I am very pleased that you have registered as a delegate to the 16_ICQC which will be held in Menton (France) from 18 to 23 June 2018. I am also very pleased to confirm that your poster entitled

DFT STUDIES ON THE MECHANISM OF CHEMILUMINESCENT DECOMPOSITION IN
XANTHYLIDENEADAMANTANE-1,2 Dioxetane (XAD)

I remind you that you must be present in person to present the poster. If you cannot attend, the poster will have to be withdrawn.

You have informed me that you will arrive in Paris on June 8 and leave on June 27 2018. I am therefore inviting you to apply for a visa to be in France between 08/06/2018 and 27/06/2018. Please use my professional address for your application

Professeur Odile Eisenstein

Institut Charles Gerhardt, cc 1501, Université de Montpellier, 34095 Montpellier, France

Lab phone +33 4 67 14 33 06, Cell: +33 6 89 33 72 53

<https://www.icgm.fr/Odile-Eisenstein>

I look forward to seeing you in Menton in June 2018.

Best regards,



3.7.1/Collaborative Activities/2017-18/78

**5TH INTERNATIONAL
BAU DRUG DESIGN CONGRESS**

NOVEL METHODS AND EMERGING TARGETS IN
DRUG DISCOVERY & PATENTED DRUG DEVELOPMENT

SYED MOHAMMED ABUBAKKER

*Participated in "5th International BAU Drug Design Congress"
held in Bahçeşehir University School of Medicine, İstanbul in
October 19 - 21, 2017.*

*Prof. Dr. Türker KILIÇ
Dean BAU School of Medicine*

*Assoc. Prof. Dr. Serdar DURDAGI
Chairman of the Congress*

3