

3.2.1

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- Research Guide
- Research Scholars Registration Letter
- CURIE Project Proposal
- Tamil Nadu Science and Technology Project Proposal
- MOUs
- ISSN & ISBN
- SWAYAM & NPTEL
- Add on Program

Research Guide

18/11/19



ALAGAPPAUNIVERSITY

[Accredited with 'A+' Grade by NAAC (CGPA:3.64)
in the Third Cycle]

KARAIKUDI - 630 003



Date: 31.12.2018

Rc.R2/RAC/2018

Dr. C. SEKAR
Dean - Research

Sub: Recognition of Research Supervisor- Intimated - Reg

- Ref:
1. RAC Resolution No.3.14, dated 19.11.2018
 2. SCAA dated 29.11.2018
 3. Syndicate Resolution No.10 dated 03.12.2018

By direction, I am to inform that you are recognized as Research Supervisor in the discipline of English with effect from 03.12.2018 and also informed that the total number of candidates **should not exceed four** (both Full time/Part time) at a time in the discipline. You are requested to route all your correspondence through the Principal and Head of the Department of Approved Research Centre, as given below.

Name & Address of the Faculty	Discipline	Approved Research Centre
Dr.K.Vijaya Assistant Professor, Department of English, Idhaya College for Women, Sarugani.	English	Department of English & Foreign Languages, Alagappa University, Karaikudi.

To
Dr.K.Vijaya
Assistant Professor,
Department of English,
Idhaya College for Women,
Sarugani- 630 411
(Through proper channel)

Handwritten signature
Dean - Research
DEAN (RESEARCH)
ALAGAPPA UNIVERSITY

Handwritten date
31/12/18
KARAIKUDI - 630 003
Handwritten initials

Copy to:

1. The Principal
Idhaya College for Women,
Sarugani.- 630 411
2. The Head
Department of English & Foreign Languages,
Alagappa University,
Karaikudi - 630 003.



ALAGAPPA UNIVERSITY

(A State University Established by the Government of Tamilnadu and recognized by UGC)
(Re-accredited with 'A' Grade by NAAC)

KARAIKUDI - 630 003



Rc.R1/RAC/2017

Date: 24.04.2017

Dr. T.R. Gurumoorthy
Dean (Research)

Sub: Recognition of Research Supervisor- Intimated - Reg

Ref: 1. RAC Resolution No.4.1, dated 20.02.2017
2. SCAA dated 23.02.2017
3. Syndicate Resolution No.17 dated 30.03.2017

By direction, I am to inform that you are recognized as Research Supervisor in the discipline of **Commerce** with effect from 30.03.2017 and also informed that the total number of candidates **should not exceed four** (both Full time/Part time) at a time in the discipline. You are requested to route all your correspondence through the Principal and Head of the Department of Approved Research Centre, as given below.

Name & Address of the Faculty	Discipline	Approved Research Centre
Dr.S.Selvarani HOD of Commerce, Idhaya College for Women, Arockia Nagar, Sarugani	Commerce	Department of Commerce, Alagappa University, Karaikudi

T.R. Gurumoorthy
Dean (Research)
25/4/17

To
Dr.S.Selvarani
HOD of Commerce,
Idhaya College for Women,
Arockia Nagar,
Sarugani - 630 411

Copy to:

1. The Principal
Idhaya College for Women,
Arockia Nagar,
Sarugani

2. The Professor and Head
Department of Commerce,
Alagappa University,
Karaikudi



ALAGAPPA UNIVERSITY

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KARAIKUDI - 630 003



Date: 24.04.2017

Rc.R1/RAC/2017

Dr. T.R. Gurumoorthy
Dean (Research)

Sub: Recognition of Research Supervisor- Intimated - Reg

Ref: 1. RAC Resolution No.4.2, dated 20.02.2017
2. SCAA dated 23.02.2017
3. Syndicate Resolution No.17 dated 30.03.2017

By direction, I am to inform that you are recognized as Research Supervisor in the discipline of **Commerce** with effect from 30.03.2017 and also informed that the total number of candidates **should not exceed Four** (both Full time/Part time) at a time in the discipline. You are requested to route all your correspondence through the Principal and Head of the Department of Approved Research Centre, as given below.

Name & Address of the Faculty	Discipline	Approved Research Centre
Dr.R.Vijayalakshmi Head, Department of Commerce & CA, Idhaya College for Women, Arockia Nagar, Sarugani.	Commerce	Department of Commerce, Alagappa University, Karaikudi.

Dean (Research)
25/4/17

To
Dr.R.Vijayalakshmi
Head,
Department of Commerce & CA,
Idhaya College for Women,
Arockia Nagar,
Sarugani - 630 411.

Copy to:

1. The Principal
Idhaya College for Women,
Arockia Nagar,
Sarugani.

2. The Professor and Head
Department of Commerce,
Alagappa University,
Karaikudi.

Research Scholars Registration Letter



ALAGAPPA UNIVERSITY

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RESEARCH SECTION



Rc.R1/Ph.D. Registration/R20162831/2022

Date : 25.05.2022

Dr. A. Narayanamoorthy
DEAN (RESEARCH)

To
Ms. MANIMEGALAI S,
W/o.K.Senthilkumar,
D/No:98H, Maadha Nagar,
Ramnagar(Post),
Devakkottai - 630 303.
Contact No: 9585068324

Register No. R20162831/2022-23.
(This number should be quoted in all
correspondence)

Dear Applicant,

Sub : Alagappa University - Registration for Ph.D. (**Part-Time**) - Date of Commencement
of Research Work - Intimated - Reg.

Ref : Vice-Chancellor's Order dated 16.05.2022.

By direction, I am to inform that your application for registration for Ph.D. Degree (**Part-Time**) in **English** on the Research work entitled "**The Predicament of Women in Margaret Laurence's Select Novels: A Study**" under the supervision of "**Dr.K.Vijaya**, Assistant Professor, Department of English, Idhaya College for Women, Sarugani" has been approved.

Date of Provisional Registration : 16.05.2022

Research Centre : Department of English & Foreign Languages, Alagappa University

You have to remit following fees:

1 Registration Fee	Rs.3000/-
2 Annual Research Fee	Rs.8000/-
3 Course Work & Comprehensive Viva-Voce	Rs.6000/-

Mode of Payment:

Demand Draft for the fees from any Nationalized Bank / Scheduled Bank drawn in favour of the "Registrar, Alagappa University" payable at "Karaikudi" should be sent through proper channel to the undersigned within **Ten** days from the date of receipt of this letter. Otherwise, your Ph.D. Registration is liable to be cancelled without any prior notice.

You will have to pay a sum of **Rs.8000/-** being the Annual Research Fee (by **May** of every year) until the submission of the thesis. In case, the Annual Research fee is not paid within 30 days after the due date, the registration shall stand cancelled. Such candidates may seek renewal of registration within a period of three months from the due date, by paying the prescribed fee and penalty of **Rs.1000/-**.

Minimum Duration:

M.Phil. Degree Holders	P.G. Degree Holders
Full - Time : Minimum 2 years	Full - Time : Minimum 3 years
Part - Time : Minimum 3 years	Part - Time : Minimum 4 years

Alagappapuram, Karaikudi - 630 003. Tamil Nadu, India.

Web:www.alagappauniversity.ac.in e-mail:deanresearch@alagappauniversity.ac.in

Phone:+91 4565 - 223155(30 Lines); Fax:+91 4565 - 225202/225525

Course Work:

All the Research Scholars (Full-Time and Part-Time) shall undergo the Course Work for Ph.D. Programme after provisional registration as detailed below.

P.G. Qualified Candidates	1.Course I-Research Methodology 2.Two more Courses in the relevant discipline 3.Research and Publication Ethics (RPE)
M.Phil. Qualified Candidates	1.Two Courses in the relevant discipline 2.Research and Publication Ethics (RPE)

Each Course shall have 4 credits. The Course Work shall be decided by the Departmental Research Committee based on the knowledge of the Scholar in the area of research. The Courses shall be evaluated with an Internal Assessment and Final Examination with a weightage of 25:75. The Course Work shall be completed normally within one and half years and the registration shall be confirmed only after the completion of the Course Work. Failure to complete the Course Work within the stipulated period shall entail automatic cancellation of the registration. **The written examination for your Course Work will be conducted by the Controller of Examinations during April / May 2023, followed by a Comprehensive Viva-Voce Examination by a Doctoral Committee.**

Submission of Thesis:

i. Pre-Thesis Submission Presentation:

The Research Scholar shall make a "Pre-Thesis Submission Presentation" in the Department that may be open to all Faculty Members and Research Scholars, for getting feedback and comments, which may be suitably incorporated into the draft thesis under the advice of the Supervisor.

ii. Publication:

Publication of Two research papers from the Doctoral work as first author in Scopus / Web of Science / SCI Journals for Faculty of Science / at least One research paper as first author in Scopus / Social Science Indexed Journals for the Faculty of Non-Science (Arts / Education / Management) is mandatory for submission of thesis by the Research Scholar. Also Research Scholar shall make **two paper presentations in conferences / seminars before the submission of the thesis.** The evidence of the same may be produced in the form of the reprint or acceptance letter from the journal.

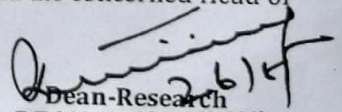
iii. Certificate:

The Research Supervisor shall produce the following certificates **(i) for publication of article and paper presentations in the relevant discipline (ii) regarding anti plagiarism (i.e, similarity with published literature shall not exceed 20% (refer Regulations under clause 12.5 a) by using URKUND-anti plagiarism service, at the time of submission of Thesis.**

Extension:

Letter for extension should be sent one month prior to the expiry of the maximum period of six years along with fees and Research Supervisor's recommendation duly forwarded through proper channel. Otherwise, the registration is liable to be cancelled without any prior notice. The maximum period for Ph.D. Programme is eight years.

Any correspondence with this office is to be done only through the Research Supervisor and the concerned Head of the Department / Institution by quoting the Registration Number.


Dean-Research
DEAN (RESEARCH)
ALAGAPPA UNIVERSITY
KARAIKUDI - 630 003
GB
25/5/2022
26/5/2022

Copy to:

1. Dr.K.Vijaya (Research Supervisor) - with a request (i) to intimate the Course Work approved by DRC and (ii) to recommend a panel of experts (consisting of Research supervisor, HOD and Three External Experts from neighbouring accredited State Universities).
2. The Head of the Department of English and Foreign Languages, Alagappa University, Karaikudi.
3. The Principal, Idhaya College for Women, Sarugani.
4. File.



ALAGAPPA UNIVERSITY

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RESEARCH SECTION



Rc.R1/Ph.D. Registration/R20162689/2021

Date : 11.11.2021

Dr.A.NARAYANAMOORTHY
DEAN (RESEARCH)

To

Ms. DHATSHANA G,
D/o.K.Gopal,
1/265, Vaigai Street,,
Sri Nagar, Iyer Bungalow,,
Madurai-Dist - 625017.
Contact No: 9677391490

Register No. R20162689/2021-22.
(This number should be quoted in all
correspondence)

Dear Applicant,

Sub : Alagappa University - Registration for Ph.D. (Part-Time) - Date of Commencement
of Research Work - Intimated - Reg.

Ref : Vice-Chancellor's Order dated 09.11.2021.

By direction, I am to inform that your application for registration for Ph.D. Degree (Part-Time) in Commerce on the Research work entitled "A Study on Customers Satisfaction towards Mobile Wallet in Public Sector Banks with Special Reference to Madurai District" under the supervision of "Dr.S.Selvarani, Associate Professor, Department of Commerce with Computer Application, Idhya College for Women, Sivagangai" has been approved.

Date of Provisional Registration : 09.11.2021

Research Centre : Department of Commerce with Computer Applications, Idhaya
College for Women

You have to remit following fees:

1 Registration Fee	Rs.3000/-
2 Annual Research Fee	Rs.8000/-
3 Course Work & Comprehensive Viva-Voce	Rs.6000/-

Mode of Payment:

Demand Draft for the fees from any Nationalized Bank / Scheduled Bank drawn in favour of the "Registrar, Alagappa University" payable at "Karaikudi" should be sent through proper channel to the undersigned within Ten days from the date of receipt of this letter. Otherwise, your Ph.D. Registration is liable to be cancelled without any prior notice.

You will have to pay a sum of Rs.8000/- being the Annual Research Fee (by November of every year) until the submission of the thesis. In case, the Annual Research fee is not paid within 30 days after the due date, the registration shall stand cancelled. Such candidates may seek renewal of registration within a period of three months from the due date, by paying the prescribed fee and penalty of Rs.1000/- .

Minimum Duration:

M.Phil. Degree Holders

Full - Time : Minimum 2 years

Part - Time : Minimum 3 years

P.G. Degree Holders

Full - Time : Minimum 3 years

Part - Time : Minimum 4 years

Alagappapuram, Karaikudi - 630 003. Tamilnadu, India.

Web:www.alagappauniversity.ac.in e-mail:deanresearch@alagappauniversity.ac.in

Phone:+91 4565 - 223155(30 Lines); Fax:+91 4565 - 225202/225525

Course Work:

All the Research Scholars (Full-Time and Part-Time) shall undergo the Course Work for Ph.D. Programme after provisional registration as detailed below.

P.G. Qualified Candidates	1.Course I-Research Methodology 2.Two more Courses in the relevant discipline 3.Research and Publication Ethics (RPE)
M.Phil. Qualified Candidates	1.Two Courses in the relevant discipline 2.Research and Publication Ethics (RPE)

Each Course shall have 4 credits. The Course Work shall be decided by the Departmental Research Committee based on the knowledge of the Scholar in the area of research. The Courses shall be evaluated with an Internal Assessment and Final Examination with a weightage of 25:75. The Course Work shall be completed normally within one and half years and the registration shall be confirmed only after the completion of the Course Work. Failure to complete the Course Work within the stipulated period shall entail automatic cancellation of the registration. **The written examination for your Course Work will be conducted by the Controller of Examinations during November / December 2022, followed by a Comprehensive Viva-Voce Examination by a Doctoral Committee.**

Submission of Thesis:

i. Pre-Thesis Submission Presentation:

The Research Scholar shall make a "Pre-Thesis Submission Presentation" in the Department that may be open to all Faculty Members and Research Scholars, for getting feedback and comments, which may be suitably incorporated into the draft thesis under the advice of the Supervisor.

ii. Publication:

Publication of **Two** research papers from the Doctoral work as **first author** in Scopus / Web of Science / SCI Journals for Faculty of Science / at least **One** research paper as **first author** in Scopus / Social Science Indexed Journals for the Faculty of Non-Science (Arts / Education / Management) is mandatory for submission of thesis by the Research Scholar. Also Research Scholar shall make **two paper presentations in conferences / seminars before the submission of the thesis.** The evidence of the same may be produced in the form of the reprint or acceptance letter from the journal.

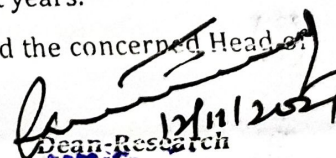
iii. Certificate:

The Research Supervisor shall produce the following certificates (i) for publication of article and paper presentations in the relevant discipline (ii) regarding anti plagiarism (i.e, similarity with published literature shall not exceed 20% (refer Regulations under clause 12.5 a) by using URKUND-anti plagiarism service, at the time of submission of Thesis.

Extension:

Letter for extension should be sent one month prior to the expiry of the maximum period of six years along with fees and Research Supervisor's recommendation duly forwarded through proper channel. Otherwise, the registration is liable to be cancelled without any prior notice. The maximum period for Ph.D. Programme is eight years.

Any correspondence with this office is to be done only through the Research Supervisor and the concerned Head of the Department / Institution by quoting the Registration Number.


12/11/2021
Dean-Research
DEAN (RESEARCH)
ALAGAPPA UNIVERSITY
KARAIKUDI - 630 003
11/11/2021 12/11/2021

Copy to:

1. Dr.S.Selvarani (Research Supervisor) - with a request (i) to intimate the Course Work approved by DRC and (ii) to recommend a panel of experts (consisting of Research supervisor, HOD and Three External Experts from neighbouring accredited State Universities).
2. The Head of the Department of Commerce with Computer Application, Idhya College for Women, Sivagangai
3. The Principal, Idhya College for Women, Sivagangai
4. File.



ALAGAPPA UNIVERSITY

[Accredited with A+ Grade by NAAC (CGPA: 3.64) and Graded as Category-I University by MHRD-UGC]

RESEARCH SECTION



Rc.R1/Ph.D. Registration/R20162688/2021

Date : 11.11.2021

Dr.A.NARAYANAMOORTHY
DEAN (RESEARCH)

Ms. DEVA SANGEETHA D,
D/o. D. Daniel Ravindran,
No.32, Kamala II Street,
(Upstairs),Chinna Chokkikulam,
Madurai Dist - 625002.
Contact No: 8680916018

(This number should be quoted in all correspondence)

Dear Applicant,

Sub : Alagappa University - Registration for Ph.D. (Part-Time) - Date of Commencement of Research Work - Intimated - Reg.

Ref : Vice-Chancellor's Order dated 09.11.2021.

By direction, I am to inform that your application for registration for Ph.D. Degree (Part-Time) in Commerce on the Research work entitled "A Study on Working Women's Attitude towards Digital Marketing - With Special Reference to Madurai District" under the supervision of "Dr.S.Selvarani, Associate Professor, Department of Commerce with Computer Application, Idhya College for Women, Sivagangai" has been approved.

Date of Provisional Registration : 09.11.2021
Research Centre : Department of Commerce with Computer Applications, Idhya College for Women

You have to remit following fees:

1 Registration Fee	Rs.3000/-
2 Annual Research Fee	Rs.8000/-
3 Course Work & Comprehensive Viva-Voce	Rs.6000/-

Mode of Payment:

Demand Draft for the fees from any Nationalized Bank / Scheduled Bank drawn in favour of the "Registrar, Alagappa University" payable at "Karaikudi" should be sent through proper channel to the undersigned within Ten days from the date of receipt of this letter. Otherwise, your Ph.D. Registration is liable to be cancelled without any prior notice.

You will have to pay a sum of Rs.8000/- being the Annual Research Fee (by November of every year) until the submission of the thesis. In case, the Annual Research fee is not paid within 30 days after the due date, the registration shall stand cancelled. Such candidates may seek renewal of registration within a period of three months from the due date, by paying the prescribed fee and penalty of Rs.1000/-.

Minimum Duration:

M.Phil. Degree Holders	P.G. Degree Holders
Full - Time : Minimum 2 years	Full - Time : Minimum 3 years
Part - Time : Minimum 3 years	Part - Time : Minimum 4 years

Alagappapuram, Karaikudi - 630 003, Tamilnadu, India.

Web:www.alagappauniversity.ac.in e-mail:deanresearch@alagappauniversity.ac.in

Phone:+91 4565 - 223155(30 Lines); Fax:+91 4565 - 225202/225525

Course Work:

All the Research Scholars (Full-Time and Part-Time) shall undergo the Course Work for Ph.D. Programme after provisional registration as detailed below.

P.G. Qualified Candidates	1.Course I-Research Methodology 2.Two more Courses in the relevant discipline 3.Research and Publication Ethics (RPE)
M.Phil. Qualified Candidates	1.Two Courses in the relevant discipline 2.Research and Publication Ethics (RPE)

Each Course shall have 4 credits. The Course Work shall be decided by the Departmental Research Committee based on the knowledge of the Scholar in the area of research. The Courses shall be evaluated with an Internal Assessment and Final Examination with a weightage of 25:75. The Course Work shall be completed normally within one and half years and the registration shall be confirmed only after the completion of the Course Work. Failure to complete the Course Work within the stipulated period shall entail automatic cancellation of the registration. **The written examination for your Course Work will be conducted by the Controller of Examinations during November / December 2022, followed by a Comprehensive Viva-Voce Examination by a Doctoral Committee.**

Submission of Thesis:

i. Pre-Thesis Submission Presentation:

The Research Scholar shall make a "Pre-Thesis Submission Presentation" in the Department that may be open to all Faculty Members and Research Scholars, for getting feedback and comments, which may be suitably incorporated into the draft thesis under the advice of the Supervisor.

ii. Publication:

Publication of **Two** research papers from the Doctoral work as **first author** in Scopus / Web of Science / SCI Journals for Faculty of Science / at least **One** research paper as **first author** in Scopus / Social Science Indexed Journals for the Faculty of Non-Science (Arts / Education / Management) is mandatory for submission of thesis by the Research Scholar. Also Research Scholar shall make two paper presentations in conferences / seminars before the submission of the thesis. The evidence of the same may be produced in the form of the reprint or acceptance letter from the journal.


iii. Certificate:

The Research Supervisor shall produce the following certificates (i) for publication of article and paper presentations in the relevant discipline (ii) regarding anti plagiarism (i.e, similarity with published literature shall not exceed 20% (refer Regulations under clause 12.5 a) by using URKUND-anti plagiarism service, at the time of submission of Thesis.

Extension:

Letter for extension should be sent one month prior to the expiry of the maximum period of six years along with fees and Research Supervisor's recommendation duly forwarded through proper channel. Otherwise, the registration is liable to be cancelled without any prior notice. The maximum period for Ph.D. Programme is eight years.

Any correspondence with this office is to be done only through the Research Supervisor and the concerned Head of the Department / Institution by quoting the Registration Number.


12/11/2021
Dean-Research
DEAN (RESEARCH)
ALAGAPPA UNIVERSITY
KARAIKUDI - 630 003
GP
11/11/2021 12/11/2021

Copy to:

1. Dr.S.Selvarani (Research Supervisor) - with a request (i) to intimate the Course Work approved by DRC and (ii) to recommend a panel of experts (consisting of Research supervisor, HOD and Three External Experts from neighbouring accredited State Universities).
2. The Head of the Department of Commerce with Computer Application, Idhya College for Women, Sivagangai
3. The Principal, Idhya College for Women, Sivagangai
4. File.



ALAGAPPA UNIVERSITY

[Accredited with A+ Grade by NAAC (CGPA: 3.64) and Graded as Category-1 University by WUHS-UGC]

RESEARCH SECTION



Rc.R1/Ph.D. Registration/R20162605/2021

Date : 09.07.2021

Dr.A.NARAYANAMOORTHY
DEAN (RESEARCH)

To
✓ Mr. VALLIAPPAN P,
S/o.RM.Palaniappan,
1138, Vali Illam,
Thanthai Periyar Nagar,
7th Street, Burma Colony, Karaikudi,
SIVAGANGAI-Dist - 630002.
Contact No: 8608670315

Register No. R20162605/2021-22.
(This number should be quoted in all
correspondence)

Dear Applicant,

Sub : Alagappa University - Registration for Ph.D. (Part-Time) - Date of Commencement
of Research Work - Intimated - Reg.

Ref : Vice-Chancellor's Order dated 07.07.2021.

By direction, I am to inform that your application for registration for Ph.D. Degree (Part-Time) in Commerce on the Research work entitled "A Study on Impact of Green Banking Services in Selected Public Sector Banks with Special Reference to Sivagangai District" under the supervision of "Dr. R. Vijayalakshmi, Associate Professor, Department of Commerce with C.A., Idhaya College for Women, Sarugani" has been approved.

Date of Provisional Registration : 07.07.2021 ✓
Research Centre : Department of Commerce with Computer Applications, Idhaya
College for Women

You have to remit following fees:

1 Registration Fee	Rs.3000/- ✓
2 Annual Research Fee	Rs.8000/- ✓
3 Course Work & Comprehensive Viva-Voce	Rs.6000/- ✓

Mode of Payment:

Demand Draft for the fees from any Nationalized Bank / Scheduled Bank drawn in favour of the "Registrar, Alagappa University" payable at "Karaikudi" should be sent through proper channel to the undersigned within Ten days from the date of receipt of this letter. Otherwise, your Ph.D. Registration is liable to be cancelled without any prior notice.

You will have to pay a sum of Rs.8000/- being the Annual Research Fee (by July of every year) until the submission of the thesis. In case, the Annual Research fee is not paid within 30 days after the due date, the registration shall stand cancelled. Such candidates may seek renewal of registration within a period of three months from the due date, by paying the prescribed fee and penalty of Rs.1000/-.

Minimum Duration:

M.Phil. Degree Holders	P.G. Degree Holders
Full - Time : Minimum 2 years	Full - Time : Minimum 3 years
Part - Time : Minimum 3 years	Part - Time : Minimum 4 years

Alagappapuram, Karaikudi - 630 003, Tamilnadu, India.

Web:www.alagappauniversity.ac.in e-mail:deanresearch@alagappauniversity.ac.in

Phone:+91 4565 - 223155(30 Lines); Fax:+91 4565 - 225202/225525

Course Work:

All the Research Scholars (Full-Time and Part-Time) shall undergo the Course Work for Ph.D. Programme after provisional registration as detailed below.

B.G. Qualified Candidates	1.Course I-Research Methodology 2.Two more Courses in the relevant discipline 3.Research and Publication Ethics (RPE)
M.Phil. Qualified Candidates	1.Two Courses in the relevant discipline 2.Research and Publication Ethics (RPE)

Each Course shall have 4 credits. The Course Work shall be decided by the Departmental Research Committee based on the knowledge of the Scholar in the area of research. The Courses shall be evaluated with an Internal Assessment and Final Examination with a weightage of 25:75. The Course Work shall be completed normally within one and half years and the registration shall be confirmed only after the completion of the Course Work. Failure to complete the Course Work within the stipulated period shall entail automatic cancellation of the registration. **The written examination for your Course Work will be conducted by the Controller of Examinations during November / December 2022, followed by a Comprehensive Viva-Voce Examination by a Doctoral Committee.**

Submission of Thesis:

i. Pre-Thesis Submission Presentation:

The Research Scholar shall make a "Pre-Thesis Submission Presentation" in the Department that may be open to all Faculty Members and Research Scholars, for getting feedback and comments, which may be suitably incorporated into the draft thesis under the advice of the Supervisor.

ii. Publication:

Publication of Two research papers from the Doctoral work as first author in Scopus / Web of Science / SCI Journals for Faculty of Science / at least One research paper as first author in Scopus / Social Science Indexed Journals for the Faculty of Non-Science (Arts / Education / Management) is mandatory for submission of thesis by the Research Scholar. Also Research Scholar shall make two paper presentations in conferences / seminars before the submission of the thesis. The evidence of the same may be produced in the form of the reprint or acceptance letter from the journal.

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Any correspondence with this office is to be done only through the Research Supervisor and the concerned Head of the Department / Institution by quoting the Registration Number.


Dean-Research
DEAN (RESEARCH)
ALAGAPPA UNIVERSITY
KARAIKUDI - 630 033.
9/7/2021 9/7/2021

Copy to:

1. Dr. R. Vijayalakshmi (Research Supervisor) - with a request (i) to intimate the Course Work approved by DRC and (ii) to recommend a panel of experts (consisting of Research supervisor, HOD and Three External Experts from neighbouring accredited State Universities).
2. The Head of the Department of Commerce, Alagappa University, Karaikudi
3. The Principal, Idhaya College for Women, Sarugani
4. File.

CURIE Project Proposal



Project Proposal On

"SYNTHESIS AND CHARACTERIZATION OF METAL OXIDE THIN FILMS USING SPRAY PYROLYSIS FOR SOLAR CELL APPLICATION"

Submitted to

Division : WISE KIRAN

Programme or Scheme : Consolidation of University Research for Innovation and Excellence in Women Universities (CURIE)

Submitted by

Project Investigator:

Dr. Helen S J

IDHAYA COLLEGE FOR WOMEN, SARUGANI-Sarugani

Part 1 : General Information

General Information:

1.Name of the Institute/University/Organisation submitting the Project Proposal :

IDHAYA COLLEGE FOR WOMEN,
SARUGANI

2. State Tamilnadu

3. Principal Investigator Name: Dr. Helen S J

4. Category: OBC

5. Type of the Institue : Academic Institutions (Private)

6. Project Title : SYNTHESIS AND CHARACTERIZATION OF METAL OXIDE THIN FILMS USING SPRAY PYROLYSIS FOR SOLAR CELL APPLICATION

7. Division : WISE KIRAN

8. Programme Or Scheme : Consolidation of University Research for Innovation and Excellence in Women Universities (CURIE)

9. Academic Area : Physical Science,

10. Application Area : Energy,

11. Government National Initiative : Smart Cities, Smart Village, Innovate India,

12. Type of Proposal : Proposal Against Call

13. Project Duration : 2 Years and 9 Months

14. Proposal Submit Date : 10/01/2022

15. Project Keywords : spary pyrolysis, Cadmium acetate, Solar parameters and Solar cells

16. Project Summary :

Objectives of the work

The following objectives are to be carried out in the part of PG program

1 Preparation of following cadmium oxide CdO thin films by spray pyrolysis.

Undoped CdO thin films

CdO thin films doped with metals F, Al.

2 Characterization of films for various properties.

3 Improving parameters like electrical resistivity, Optical transparency, carrier concentration and mobility of CdO thin films with various dopants and identifying suitable dopants.

4 Optimizing spray parameters such as solution concentration flow rate, substrate temperature to obtain films suitable for solar cell applications.

5 Finally, it is proposed to prepare heterojunction solar cell with the configuration n- CdO/ p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Methodology of Research Work

Preparation of the CdO thin film and doped CdO thin film F, Mo

To study the effect of growth parameters on various properties of doped and undoped CdO thin films

Optimization of growth parameters and fabrication of CdO thin films

Solar cell fabrication and studies

Work plan

The n-type CdO thin films will be spray deposited on ultrasonically cleaned glass substrate. The CdO will be deposited with different temperatures and concentrations. The prepared films will be characterized by various properties like structural XRD, morphological SEM, AFM, compositional EDAX, optical UV-Vis, PL and electrical properties. Finally, to prepare heterojunction solar cell with the configuration n- CdO/ p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Outcome

To prepare heterojunction solar cell with the configuration n- CdO/ p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Applications

Photovoltaic and Solar cells

Part 2: Particulars of Investigators

Principal Investigator:

1. Name:	Dr. Helen S J
Gender:	Female
Date of Birth:	27/04/1988
Designation :	Assistant Professor
Department:	Physics
Institute/University:	IDHAYA COLLEGE FOR WOMEN, SARUGANI
State:	Tamilnadu
District:	Sivaganga
City/Place:	Sarugani
Address:	IDHAYA COLLEGE FOR WOMEN, AROCKIA NAGAR, SARUGANI, SIVAGANGAI DIST, TAMILNADU
Pin:	630411

Communication Email: drhelenphysics@gmail.com
Alternate Email: idhaya.physics2018@gmail.com
Mobile: 9715462279
Phone:
Fax:
Category: OBC

Co-Investigator: NA

Part 3: Suggested Refrees

Suggested Refrees: NA

Part 4: Financial Details

Financial Details: NA

A. Non - Recurring

Equipment

S.	Equipments	Qty.	Justification	1 Year	Total
1 .	Ecopia HMS-3000 Hall Measurement System	1	1,12,572	112572	112572
Total				112572	112572

B. Recurring

Project Staff

S.	Project Staff	No.	Justification	1 Year	2 Year	3 Year	Total
1 .	Lab attendant	1	15000	15000	15000	15000	45000
Total				15000	15000	15000	45000

Consumables

S.	Items	Qty.	Justification	1 Year	2 Year	3 Year	Total
1 .	Molybdenum Chloride	1	4000	0	4000	0	4000
2 .	P- type Silicon wafer	2	16970	33940	0	0	33940
3 .	Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	1	50000	50000	50000	50000	150000

Budget Head Summary in (INR)

Budget Head	Year-1	Year-2	Year-3	Total
1- Non-Recurring				
Equipment	112572	0	0	112572
Subtotal (Capital)	112572	0	0	112572
2- Recurring				
Project Staff	15000	15000	15000	45000
Consumables	83940	54000	50000	187940
Subtotal (General)	98940	69000	65000	232940
Total Project Cost (Capital + General)	211512	69000	65000	345512

Part 5: PFMS Details

PFMS Unique Code Available: No

PFMS Unique Code : NA

Part 6: Current Ongoing Project

Current Ongoing Project: NA

List of Uploaded Documents:-

1. Complete Project proposal
2. Biodata
3. Certificate from PI
4. Conflict of interest
5. Endorsement from head of Institute
6. Quotation for Equipments

SYNTHESIS AND CHARACTERIZATION OF METAL OXIDE THIN FILMS USING SPRAY PYROLYSIS FOR SOLAR CELL APPLICATION

Introduction:

Solar energy is becoming a vital source of renewable energy. The photovoltaic material market today is silicon. Although, silicon is an abundant element, their large scale production is highly expensive. Material selection for future photovoltaic should satisfy several important criteria. The foremost is that the material should be comprised of abundant and inexpensive. Metal oxide semiconductor is an alternative one. Cadmium Oxide (CdO) is an n-type semiconductor with band gap of 2.2 eV. It is good transparency with low resistivity. Thin films of above compound can be prepared by various techniques. Spray pyrolysis is one of the chemical solution techniques to obtain the films. It is simple, cost effective and large area deposition.

Objectives of the work

The following objectives are to be carried out in the part of PG program

- 1) Preparation of following cadmium oxide (CdO) thin films by spray pyrolysis.
 - Undoped CdO thin films
 - CdO thin films doped with metals F, Al.
- 2) Characterization of films for various properties.
- 3) Improving parameters like electrical resistivity, Optical transparency, carrier concentration and mobility of CdO thin films with various dopants and identifying suitable dopants.

4) Optimizing spray parameters such as solution concentration flow rate, substrate temperature to obtain films suitable for solar cell applications.

5) Finally, it is proposed to prepare heterojunction solar cell with the configuration n- CdO/ p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Methodology of Research Work

- Preparation of the CdO thin film and doped CdO thin film (F, Mo)
- To study the effect of growth parameters on various properties of doped and undoped CdO thin films
- Optimization of growth parameters and fabrication of CdO thin films
- Solar cell fabrication and studies

Work plan:

The n-type CdO thin films will be spray deposited on ultrasonically cleaned glass substrate. The CdO will be deposited with different temperatures and concentrations. The prepared films will be characterized by various properties like structural (XRD), morphological (SEM, AFM), compositional (EDAX), optical (UV-Vis, PL) and electrical properties. Finally, to prepare heterojunction solar cell with the configuration n- CdO/ p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Budget details

S.No	Materials/Equipment/Studies	Product Code	Quantity	Amount in Rupees
1.	Molybdenum Chloride	208353	10g	4000
2	Ecopia HMS-3000 Hall Measurement System	-	-	80000
Characterizations				
2.	Scanning Electron Microscopy			10000
3.	Energy Dispersive X-ray Spectroscopy (EDAX)			5000
4.	XPS Analysis			35000
Total Amount				1,34,000

Name : Dr. HELEN S J
E-Mail ID : drhelenphysics@gmail.com
Contact No : 9715462279 / 9894908070

3/845 B31, Timber Road,
Bharathi Nagar West,
Paramakudi – 623 707,
Ramnad Dist.

ACADEMIC QUALIFICATIONS:

Ph.D: Karunya University [**Synthesis and Characterization of undoped and doped spray pyrolysed CdO photoelectrodes**] Oct 2017.

B.Ed: Alagappa University, Karaikudi. 73%
Passed out in the year 2012

PGDIMA: Alagappa University Distance Education, Karaikudi 58%
Passed out in the year 2011

M.Sc (Physics): Alagappa University, Karaikudi 71%
Passed out in the year 2011

B.Sc (Physics): Holy Cross College, Bharadithasan University Trichy. 68%
Passed out in the year 2009

HSC: St. Mary's Girls' Higher Secondary School, Devakottai. 67%
Passed out in the year 2006

SSLC: St. Mary's Girls' Higher Secondary School, Devakottai. 80%
Passed out in the year 2004

PERSONAL DETAILS:

NAME : HELEN S J
HUSBAND NAME : BRITTO RAJ S
DATE OF BIRTH : 27.04.1988
AGE : 33
NATIONALITY : Indian
RELIGION : Christian
MARITAL STATUS : Married
LANGUAGES KNOWN : Tamil, English

Experience:

Assistant Professor, Department of Physics, Idhaya College for Women, Sarugani,
Sivagangai Dist. June 2018 to till date.

DECLARATION:

I hereby declare that the particulars given above are true to the best of my
knowledge and belief.

Yours Faithfully,

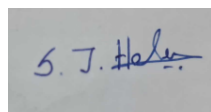
(S.J.HELEN)

Certificate from the Investigators (PI & all Co-PIs)

Project Title:

It is certified that

1. The same project proposal has not been submitted elsewhere for financial support.
2. We/I undertake that spare time on equipment procured in the project will be made available to other users.
3. We/I agree to submit a certificate from Institutional Biosafety Committee, if the project involves the utilization of genetically engineered organisms. We/I also declare that while conducting experiments, the Biosafety Guidelines of Department of Biotechnology, Department of Health Research, GOI would be followed in toto.
4. We agree to submit ethical clearance certificate from the concerned ethical committee, if the project involves field trials/experiments/exchange of specimens, human and animal materials etc.
5. The research work proposed in the scheme/project does not in any way duplicate the work already done or being carried out elsewhere on the subject.
6. We/I agree to abide by the terms and conditions of SERB grant.



Signature:

Name and Designation: Dr. S.J. Helen, Assistant Professor

Date: 10.01.2021

Place: Devakottai

Note: This document has to be signed by all investigators (PI and all Co-PIs)

Application for Women PG Colleges under CURIE CURIE-PG: 2021

1. Details of College

a. Name of the College & Year of Establishment

Idhaya College for Women, Sarugani & 1996

b. Address for correspondence including Telephone, e-mail etc.

Rev. Sr. Dr C. Jothi Mary

Principal

Idhaya College for Women, Sarugani.

E-mail: jothifhm@gmail.com

c. Status of the College [Affiliated College/ Autonomous College/ Constituent College/Private (Self- financed)] (attach supporting documents)

Affiliated College

d. Name of the Post-Graduate Departments & Year of Commencement of PG Program along with their Financial Status (General / Self- financed)

MSc Physics, 2016 (Self- financed)

2. Whether the College is accredited by NAAC/NIRF, if yes, please specify the Grade

Accredited by NAAC "A" Grade

3. Department-wise Number of PG Faculty Members with Qualifications and length of service in particular college

S.No	PG Department	Faculty Members	Qualified	Year of Experience
1	Physics	5	1	4

4. Department-wise Number of PG Students during last three years admitted and passed:

Name of PG Department	Admitted			Passed		
	2018	2019	2020	2018	2019	2020
Physics	10	2	8	10	2	8

5. Number of Students qualified NET/GATE or any other qualifying examination during last 3 years.

PG Programs	No. of Students qualify NET/GATE etc. during last 3 years		
	2018	2019	2020
Physics	Nil	Nil	Nil

6. Name of the Departments supported under FIST Program: Nil

Name of the PG Department	Year of Support	Total support provided with details

7. Has the Department received any major infrastructure research grant during the last five years from S&T agencies including UGC/AICTE. If yes, details. Nil
8. Details of research grant received from different agencies during the last five years: Nil

Name of the Investigator (Department wise)	Title of the project	Duration	Total Cost	Funding Agency

9. Indicate the research activities of the faculty members as per the following proforma: Nil

a.

Name and Designation of Faculty	Major Areas of Research	Number of PhDs produced (in last 5 years)

- b. List of Research Publications in SCI Journals Department wise during the last five years (Authors Names, Title of Paper, Name of the Journal, Volume, Page nos., Year).

Annexure

- c. List of Publications in Conference Proceedings during last five years (Authors Names, Title of Paper, Name of the Conference, Volume, Page nos., Year).

Annexure

- d. List of scientific/ technical Books written by Faculty Members in the College. Nil
- e. List of patents filed/granted Department wise in last 5 years. Nil

10. Give a list of Equipment, which are available and functional in the College (Department wise) costing Rs.5 lakhs and above.

Department: Physics

Name of Equipment	Year of Purchase	Status
Muffle furnace	2018	Working condition
Centrifuge	2019	Working condition

11. Library facilities – List the Journals received in your College/Department library in the concerned discipline.

1. Indian Journal of Pure and Applied Physics
2. Indian Journal of Physics
3. Bulletin of Material science
4. Physics for you
5. Journal of Astrophysics and Astronomy

12. Details of Post-Graduate Teaching & Research profile/ plans of the Department for next 5 years.

- To Start a Research Center.
- To Collaborate the Research Activities with Industries
- To obtain number of patents through intensive research

13. Details of funds requested for 3 years along with phasing for each year:

Sr. No.	Items Name	1 st Year	2 nd Year	3 rd Year	Total Cost
1.	Equipment (Name of each item)	Ecopla HMS-3000 Hall Measurement System	Nil	Nil	1,12,572
2.	Infrastructure Facilities (Books, Renovation of Classrooms/Labs etc.)		Books=	Nil	Nil
3.	Consumables	P-type Silicon wafer (2) Molybdenum Chloride Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	33940 + 4000+50000 =87940 187940
4.	Contingencies				
5.	Networking Computational Facilities etc.				
6.	Manpower (Lab Assistant only)	5000	5000	5000	45,000
7.	Overhead				
	Grand Total				3,45,515

14. Details of each Budget Heads with full justifications for each item as given at Item No. 13

Information submitted as above is true and is correct.



G. Jothamma
Signature with seal
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411

Publications 6

S.No	Authors Names	Title of the Paper	Name of the Journal	Volume	Page No.	Year
1	SJ Helen, SR Sirkumar	<u>Effect of substrate temperature on the physical properties of spray pyrolysed CdO thin films for gas sensing application</u>	Solid State Technology	63 (6)	1903-19054	2020
2	SJ Helen, R Chandramohan	Influence Of Pure And Cd, Zn Doped CuO Thin Films Using Spray Pyrolysis Technique	PalArch's Journal of Archaeology of Egypt/Egyptology	17 (6)	9515-9522	2020
3	S.J. Helen, Suganthi Devadason, M. Haris, T. Mahalingam, R. Chandramohan, S.R. Srikumar	Tuning the Physical Properties of Spray Pyrolysed Nanocrystalline CdO thin Films by Varying the Substrate Temperature	Journal of Nanoscience, NanoEngineering & Applications	10(1)	30-41	2019
4	SJ Helen, S Devadason, M Haris, T Mahalingam	Transparent conducting Mo-doped CdO thin films by spray pyrolysis method for solar cell applications	Journal of Electronic Materials	47 (4)	2439-2446	2018
5	S Muthukrishnan, V Subramaniam, T Mahalingam, SJ Helen, P Sumathi	Improved properties of spray pyrolysed CuO nanocrystalline thin films	Journal of Materials Science: Materials in Electronics	28 (5)	4211-4218	2017
6	SJ Helen, S Devadason, T Mahalingam	Improved physical properties of spray pyrolysed Al: CdO nanocrystalline thin films	Journal of Materials Science: Materials in Electronics	27 (5)	4426-4432	2016

Conference Proceedings

S.No.	Authors name	Title of the paper	Name of the conference	Volume	Page No.	Year
1	S. J. Helen, Suganthi Devadason, and T. Mahalingam	Effect of solution concentration change on structural, morphological and optical properties of CdO thin films using spray pyrolysis	National conference on Nanophotonics ,Bharathidasan University	1	27	2015

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E-mail: jothifhm@gmail.com

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PG Programs	No. of Students qualify NET/GATE etc. during last 3 years		
	2018	2019	2020
Physics	Nil	Nil	Nil

6. Name of the Departments supported under FIST Program: Nil

Name of the PG Department	Year of Support	Total support provided with details

7. Has the Department received any major infrastructure research grant during the last five years from S&T agencies including UGC/AICTE. If yes, details. Nil
8. Details of research grant received from different agencies during the last five years: Nil

Name of the Investigator (Department wise)	Title of the project	Duration	Total Cost	Funding Agency

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3. Bulletin of Material science
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2.	Infrastructure Facilities (Books, Renovation of Classrooms/Labs etc.)		Books=	Nil	Nil
3.	Consumables	P-type Silicon wafer (2) Molybdenum Chloride Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	Scanning Electron Microscopy Energy Dispersive X-ray Spectroscopy (EDAX) XPS Analysis	33940 + 4000+50000 =87940 187940
4.	Contingencies				
5.	Networking Computational Facilities etc.				
6.	Manpower (Lab Assistant only)	5000	5000	5000	45,000
7.	Overhead				
	Grand Total				3,45,515

14. Details of each Budget Heads with full justifications for each item as given at Item No. 13

Information submitted as above is true and is correct.



G. Jothamma
Signature with seal
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411

Publications 6

S.No	Authors Names	Title of the Paper	Name of the Journal	Volume	Page No.	Year
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3	S.J. Helen, Suganthi Devadason, M. Haris, T. Mahalingam, R. Chandramohan, S.R. Srikumar	Tuning the Physical Properties of Spray Pyrolysed Nanocrystalline CdO thin Films by Varying the Substrate Temperature	Journal of Nanoscience, NanoEngineering & Applications	10(1)	30-41	2019
4	SJ Helen, S Devadason, M Haris, T Mahalingam	Transparent conducting Mo-doped CdO thin films by spray pyrolysis method for solar cell applications	Journal of Electronic Materials	47 (4)	2439-2446	2018
5	S Muthukrishnan, V Subramaniam, T Mahalingam, SJ Helen, P Sumathi	Improved properties of spray pyrolysed CuO nanocrystalline thin films	Journal of Materials Science: Materials in Electronics	28 (5)	4211-4218	2017
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Conference Proceedings

S.No.	Authors name	Title of the paper	Name of the conference	Volume	Page No.	Year
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SHIREE BALAJI SCIENTIFIC COMPANY

Dealers in All Laboratories & Industrial Requirements

7/9, Meyyappan Street, (opp. New Ayyappa Textiles), Karaikudi - 630 001

DATE : 10.01.2022

REF NO : SBSC2/1001/22

TO,
THE PRICIPAL,
IDHAYA COLLEGE FOR WOMEN,
SARUGANI.

QUOTATION

S.NO	Description of Equipment	Total Cost (in INR)	GST (As applicable)	Net Price
1	Complete set of Hall Effect Experiment	95,400	17172.00	1,12,572.00
Total				1,12,572.00

TERMS :

1. GST AS APPLICABLE
2. DELIVERY ONE WEEK,
3. PAYMENT 30 DAYS.

FOR SHIREE BALAJI SCIENTIFIC COMPANY

**Tamil Nadu Science
and Technology
Project Proposal**

FORMAT OF APPLICATION FOR SCIENCE AND TECHNOLOGY PROJECTS

S.No.		
1.	Title of the Project	SYNTHESIS AND CHARACTERIZATION OF CdO THIN FILMS USING SPRAY PYROLYSIS FOR SOLAR CELL APPLICATION
2.	Discipline under which the project is to be considered	Physics
3.	Name & Designation of the Principal Investigator	Dr. S.J. Helen Assistant Professor & Head
4.	Postal Address of the Principal Investigator	76 Sivagangai Raja Road Ramnagar, Devakottai.
5.	Name & Designation of the Co-Principal Investigator	
6.	Contact Phone numbers (Office and Residence) of PI & CO-PI along with, email-id	9715462279
7.	Name of the Institution/Organization in which the project will be carried out	Idhaya College for Women, Sarugani.
8.	Name of the other Institution(s) Organization (s) involved in the project	
9.	Duration of the Project (Maximum 2 years)	2 Years
10.	Total Cost of the Project Proposal (details to be furnished in the prescribed format)	2 Lakhs 13 Thousands
11.	An abstract, not exceeding one page describing the background, objectives, methodology and yearwise budget	Yes, attached
12.	Details of the Project proposal including the state-of-the-art of the subject, the work already done in this area in India or elsewhere, and defining clearly the objectives and methodology and year wise phasing of the project	NO
13.	Brief Bio-data of the investigator(s)	Yes, attached
14.	Facilities available at the Institution/Organization to carry out the project	Yes
15.	Social relevance and usefulness of the Project	Yes, This proposed work is highly useful to our society in medical field. Brief details are attached
16.	Whether the same Investigator(s) is / are receiving funds from other agencies If yes, Title of the Project, Agency, amount, details of the Project already carried out. If there is any	NO

Place: Sarugani

Date: 07-03-2022

Signature of the Investigator(s)

Signature of the Head of the Department

S.J.L.
~~Head of the Department~~
Department of Physics
Idhaya College For Women
Sarugani Sivagangai Dist. 630 41

Signature of the Head of the Institution

S.J.L.
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411

DETAILS OF BUDGET ESTIMATE

(Amount in Rs. 2,13,000/-)

Sl.No.	Details	I Year	II Year	III Year	
A	Salaries & Wages Research Fellow (at Rs. 10000/pm)* OR Technical Assistant(at Rs. 5000/pm *	10,000/pm	10,000/pm	-	
B	i.	Equipment (Only Project Specific minor equipment)	25,000	25,000	
	ii.	Details of major equipment/facilities expected to be available with institution	Molybdenum Chloride = 4000 Ecopia HMS-3000 = 80000 Hall Measurement System Total = 84000		
C	Consumables		25,000	25,000	-
	Chemicals/Glasswares		5,000	5,000	-
	Fabrication/Service		1,000	1,000	-
	Testing		5,500	5,500	-
	Other consumable		1,000	1,000	-
	Total		37,500	37,500	-
D	Travel	25,000	25,000	-	
E	Total of A + B+C+D	1,98,000	1,98,000	-	
F	Institution overhead charge (Maximum of Rs. 15,000/per year)	15,000	15,000	-	
G	Total Cost of Project	2,13,000	2,13,000	-	

sjh
Signature of the Investigator(s)

P. ...
Signature of the Head of the Institution
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411

With Seal



SYNTHESIS AND CHARACTERIZATION OF METAL OXIDE THIN FILMS USING SPRAY PYROLYSIS FOR SOLAR CELL APPLICATION

Project Proposal

Pure (undoped) and Zinc, Copper (Cu) doped CdO thin films are prepared using spray pyrolysis technique on glass substrates. Influence of Zn & Cu doping on the structural, optical and electrical properties of CdO thin films were reported. XRD analysis reveals that the prepared pure and Zn & Cu doped CdO films show polycrystalline nature with face centered cubic structure. Also, Zn& Cu doping significantly increases the crystalline and changes the crystallite size. SEM images shows grains which are uniform and spherical shaped grains. The transmittance of the prepared CdO films recorded in the UV visible spectra show 40 to 70% in the visible region. The estimated optical band gap values are blue shifted in Zn doped CdO thin films. Hall measurement shows that the films are n-type semiconductor. Also, it is observed that when the Cu doped, the electrical resistivity is high when compared to Zn doped CdO thin films.

Solar energy is becoming a vital source of renewable energy. The photovoltaic material market today is silicon. Although, silicon is an abundant element, their large scale production is highly expensive. Material selection for future photovoltaic should satisfy several important criteria. The fore most is that the material should be comprised of abundant and inexpensive. Metal oxide semiconductor is an alternative one. Cadmium Oxide (CdO) is an n-type semiconductor with band gap of 2.2 eV. It is good transparency with low resistivity. Thin films of above compound can be prepared by various techniques. Spray pyrolysis is one of the chemical solution techniques to obtain the films. It is simple, cost effective and large area deposition.

Objectives of the work

The following objectives are to be carried out in the part of PG program

- 1) Preparation of following cadmium oxide (CdO) thin films by spray pyrolysis.
 - Undoped CdO thin films
 - CdO thin films doped with metals F, Al.
- 2) Characterization of films for various properties.
- 3) Improving parameters like electrical resistivity, Optical transparency, carrier concentration and mobility of CdO thin films with various dopants and identifying suitable dopants.
- 4) Optimizing spray parameters such as solution concentration flow rate, substrate temperature to obtain films suitable for solar cell applications.
- 5) Finally, it is proposed to prepare heterojunction solar cell with the configuration n- CdO/p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Methodology of Research Work

- Preparation of the CdO thin film and doped CdO thin film (F, Mo)
- To study the effect of growth parameters on various properties of doped and undoped CdO thin films
- Optimization of growth parameters and fabrication of CdO thin films
- Solar cell fabrication and studies

Work Methodology

STEP 1: Preparation of CdO thin film

Cadmium acetate dihydrate was dissolved in distilled water at room temperature and water was used as solvent to synthesize CdO thin films using the spray pyrolysis technique. Copper oxide and Zinc acetate was the source for Cu & Zn doping and the concentration of the dopant was taken as 3 wt% of both the compound. The glass substrate is placed at the distance of 18 cm from the nozzle tip. For all the films, 3 ml/min flow rate and 300 °C parameter is adopted for spraying on the substrate. The substrate was allowed to get heated to certain temperature before spraying

STEP 2: Characterization of CdO thin films:

X-ray diffraction analysis was performed using X ray diffractometer (Shimadzu X-600) in order to study the crystal structure of the spray pyrolysed thin films. The surface morphology was recorded using scanning electron microscope (SEM, JEOL 2 – JSM 6000). Optical transmission spectra of all the deposited films were obtained using UV-VIS spectrophotometer (UV Vis NIR Jasco V-670). The electrical studies were carried out using Hall measurement system (ECOPIA, HMS 3000). Finally, to prepare heterojunction solar cell with the configuration n- CdO/ p-Si and CdO/CdTe thin film solar cells and study the solar cell parameters.

Research Plan

S.No.	Work Plan	Period
1	▪ Synthesis & Characterisation of CdO thin films	1-9 months
2	▪ Preliminary experiments with the Hall experiment	10-12 month
3	▪ Process optimization, etc, synthesized compounds characterization, etc.	13-21 months
4	▪ Manuscript writing and report preparation	22-24 months
Total		2 years

Time Schedule of Activities Giving Milestones through BAR Diagram.

S.No.	Activities	1-6	7-12	13-18	19-24
1.	Synthesis of CdO thin films				
2.	Synthesis of CdO Nano films surface morphology, crystallization and better electron conductivity and cost-effective compared to noble metals				
3.	Material characterizations and applications XRD, AAS, FT-IR, BET, FE-SEM with EDX, HR-TEM, with SAED, EDX mapping, RAMAN, XPS, and LSR				
4.	Synthesized materials will be characterized by Voltammetry				
4.	Manuscript preparation, submission to journal and report preparation				

REFERENCES

1. Gan Siew Mei, P Suthitha Menon and Gurumurthy Hegde, 2020 ZnO for performance enhancement of surface plasmon resonance biosensor : a review, Mater. Res. Express 7, 2020, 012003.
2. S. Vasheghani Fahrahani, T. D. Veal, P. D. C. King, J. Zúñiga-Pérez, V. Muñoz-Sanjoé, and C. F. McConville, 2011 "Electron mobility in CdO films," J. Appl. Phys. 109, 073712.

3. Rituparna Chatterjee, Gopes Chandra Das and Kalyan Kumar Chattopadhyay 2020 Luminescence properties of nano and bulk $ZnWO_4 : Eu^{3+}$ phosphors for solid state lighting applications, *Mater. Res. Express* 7,2020, 074002.
4. Vanasundaram N, Muneer Ahmad, A K Chaudhary and Praveen Kumar Shurma, Surface charge doping induced carrier type reversal in spin coated CdS/tGO layered nanohybrid films. *Mater. Res. Express*, 7,2020, 025015.
5. Evan L. Runnerstrom, Kyle P. Kelley, Edward Sachet, Christopher T. Shelton, and Jon-Paul Maria Epsilon-near-Zero Modes and Surface Plasmon Resonance in Fluorine-Doped Cadmium Oxide Thin Films. *ACS Photonics*, 4, 2017, 1885-1892
6. Chao Ping Liu, Chun Yuen Ho, Roberto dos Reis, Yishu Foo, Peng Fei Guo, Juan Antonio Zapien, Wlodek Walukiewicz, and Kin Man Yu . Room-Temperature-Synthesized High-Mobility Transparent Amorphous CdO-Ga₂O₃ Alloys with Widely Tunable Electronic Bands. *ACS Applied Materials & Interfaces* 2018, 10 (8) , 7239-7247.
7. Dakhel, A.A., Hamad, H. Electronic and Bandgap Tuning of Hydrogenated Ti-doped CdO Semiconductor. *Journal of Elec Materi* 48, 4293-4299 (2019).
8. S. J. Helen, Suganthi Devadason and T. Mahalingam, Improved physical properties of spray pyrolysed Al:CdO nanocrystalline thin films. *J Mater Sci: Mater Electron* 27 (5), 4426 (2016).

Expected output and outcome of the proposal (Social relevance and usefulness of the Project)

- ✓ This project work mainly focused on the designing green strategy to save our environment.
- ✓ This proposed work is highly useful to our society in the environment.
- ✓ This project only focused on green energy and save energy.
- ✓ This project is use of solar energy to electrical energy.

Name : Dr. HELEN S J
E-Mail ID : sjhelen.physics@gmail.com
Contact No : 9715462279 / 9894908070

76 Sivagangai Raja Road
Ramnagar Devakottai,
Sivagangai Dist. 630303

OBJECTIVE:

To work in an environment that challenges me to continue learning, at the same time be able to help and learn as much as I can from peers. To create a workspace that is in continual growth with opportunities for advancement.

ACADEMIC QUALIFICATIONS:

Ph.D: Karunya University [Synthesis and Characterization of undoped and doped spray pyrolysed CdO photoelectrodes] Oct 2017.

B.Ed: Alagappa University, Karaikudi. 73%
Passed out in the year 2012

PGDIMA: Alagappa University Distance Education, Karaikudi 58%
Passed out in the year 2011

M.Sc (Physics): Alagappa University, Karaikudi 71%
Passed out in the year 2011

B.Sc (Physics): Holy Cross College, Bharadithasan University Trichy. 68%
Passed out in the year 2009

HSC: St. Mary's Girls' Higher Secondary School, Devakottai. 67%
Passed out in the year 2006

SSLC: St. Mary's Girls' Higher Secondary School, Devakottai. 80%
Passed out in the year 2004

RESEARCH INTEREST:

Thin film technology

Nano materials

Application like photoelectrodes, sensors and solar cells

METHODOLOGY

Spray pyrolysis

Spin coating

Dip coating

Electrodeposition

MOUs

भारतीय गैर न्यायिक

बीस रुपये

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TWENTY
RUPEES

INDIA NON JUDICIAL

தமிழ்நாடு தமில்நாடு TAMIL NADU ௨. ௨) -

25/4/22

இதயா கிங்ரா

சபாலை

04AC 665014

ச.சுந்தரபாண்டியன்.எம்.ஏ.,

உரிம எண்: 3719/ஆ1/95

நகர் முத்திரைத்தாள் விற்பனையாளர்
செல்கங்கை-தமிழ்நாடு.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred as "MoU") is entered into on 25th day of April, 2022 by and between Department of Computer Applications, Idhaya College for Women, Arockia Nagar, Sarugani, Sivaganga District - 630411, Tamilnadu, represented by its authorised representative **Rev. Dr. C. Jothimary, Principal, Idhaya College for Women, Sarugani** (hereinafter referred to as **First Party**)

and

UK Info Tech, #1, AMM Complex Second floor, Thilagar Thidal, Pudukkottai represented by its authorised representative **Mr. U. Karthikeyan, Director**, (hereinafter referred to as **Second Party**).


The Principal

Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411


U. KARTHIKEYAN MCA., M.Phil.,
Director, UK INFO TECH,
PUDUKKOTTAI - 622 001.

1. OBJECTIVE

The Core objective is to establish a long-term linkage with UK Info Tech to reduce the gap between industry expectations (practice) and academic offerings (theory) addressing internship, final year projects, incubation, entrepreneurship, personality and community development.

2. SCOPE

(a) The key benefits from UK INFO TECH to ICW are:

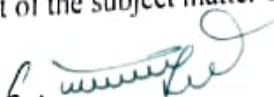
- Providing practical training of ICW computer applications department students for their internship and final year projects
- Training students, faculty and technical staff in entrepreneurial skills, job skills and personality development
- Collaborating in joint educational, extension programs
- Mentoring for innovation and incubation activities
- Delivering expert lectures in software related areas and job skills
- Organizing FDPs, workshops in Software, entrepreneurial related areas and job skills
- Assisting in improving employability including software training, specialized skill training required by company and placement opportunities.

(b) The key areas in which ICW can benefit UK INFO TECH:

- The existing expertise available with ICW can be utilized by UK Info Tech for joint outreach and community development activities.
- ICW will train the staff of UK Info Tech in Domain areas as per their needs.
- ICW will provide a large talent pool of students and faculty to assist UK Info Tech in training activities.

3. GENERAL

- This MoU shall construe to be a binding contract between the parties in respect of the subject matter of the MoU only.


The Principal


U. KARTHIKEYAN MCA, M.Phil.,
Director, UK INFO TECH,
SUNNYKOTTAI 621 004

- This MoU shall be effective from the date of last sign off and shall continue to be in force and effect for a period of April 2022 to May 2023 (1 Year) from the effective date. This MoU shall be terminated by either of the parties as by First Party by providing 03 months notice to the Second Party or as mutually agreed between the parties during the initial period and by Second Party by providing 03 months notice.
- This MoU shall constitute the entire understanding with regard to the Purpose set forth in this MoU and shall supersede any agreement existing between the Parties.

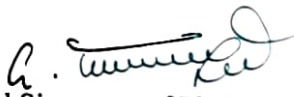
4. MONITORING AND IMPLEMENTATION

The Coordination committee consisting of the Head of the Institution, a senior faculty member from ICW, and the Director of UK Info Tech will look into the monitoring and implementation of the various aspects of the MoU. an Annual review will be conducted to monitor the progress and furtherance of the activities covered under the MoU.

5. SIGNED IN DUPLICATE

This MoU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity with effect from 25th day of April, 2022.

BY SIGNING BELOW, the parties acting by their duly authorized officers have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.


Authorised Signatory of First Party
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411


Authorised Signatory Second Party
U. KARTHIKEYAN MCA., M.Phil.,
Director, UK INFO TECH,
PUDUKKOTTAI - 622 001.

Witness:



1.

2. S. Anjan .



தமிழ்நாடு தமிழ்நாடு TAMIL NADU 95AB 291182

27.11.2021 Madurai Sivakasi nadar :

Pioneer Meenakshi women's College
Poovanthi

MADURAI SIVAKASI NADAR'S PIONEER
MEENAKSHI WOMEN'S COLLEGE
POOVANTHI-630 611

பி.ஆர். பூமிநாதன்
ஆர்.ஓ.சி. நிரர் 91
முத்தரைத்தாள் வீடு
117, பேலஸ் கோடு, மதுரை



AGREEMENT FOR COLLABORATION ACTIVITIES

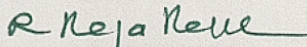
This agreement for collaboration activities is entered into records on 1st December 2021 by and between, the Department of Information Technology, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi, duly represented by the Principal, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi and the Department of Computer Applications, Idhaya College for Women duly represented by the Principal of Idhaya College for Women and is applicable for the academic years 2021-2022 and 2022-2023

As per this agreement, both institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity. The two institutions shall seek to promote:

- The exchange of faculty to the mutual benefit of both institutions.
- Collaboration in teaching and consultancy studies in the field of mutual interest.
- The exchange of academic materials and publication.
- Conducting lectures by prominent academicians in the area of interest.
- Participating in seminars, symposiums and other types of academic discussions.

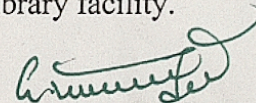
A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. The Collaboration policy will be as follows:

- By a home institution, we mean the institution where a student is a full-time student, and from where she is expected to graduate.
- By host institution, an institution that receives a student for a brief period of time to undertake a pre-determined programme of study.
- Exchange of students will be selected by mutual agreement between the home institution and the host institution.
- To permit students, staff and faculty members to use library facility.



PRINCIPAL

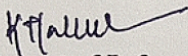
Madurai Sivakasi Nadars Pioneer Meenakashi
Women's College, Poovanthi
Meenakshi Women's College
Poovanthi-630 611



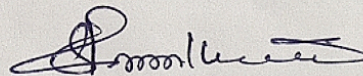
PRINCIPAL

Idhaya College for Women, Sarugani
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivayanga Dt - 630 411

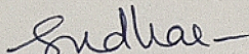
WITNESS



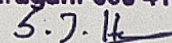
Head, Department of Information Technology
Madurai Sivakasi Nadars Pioneer Meenakashi
Women's College, Poovanthi



Head, Department of Computer Application
Idhaya College for Women, Sarugani
Head of the Department
Department of Computer Applications
Idhaya College for Women,
Sarugani-630 411.



IQAC Coordinator
Madurai Sivakasi Nadars Pioneer Meenakashi
Women's College, Poovanthi



IQAC Coordinator
CO-ORDINATOR, IQAC
Idhaya College for Women, Sarugani
IDHAYA COLLEGE FOR WOMEN
Arockia Nagar Sarugani
Sivayanga (Dist)-630 411



IDHAYA COLLEGE FOR WOMEN

(Accredited with 'A' Grade by NAAC)
(Recognized under 2(f) & 12(B) of the UGC Act 1956)
(Affiliated to Alagappa University, Karaikudi)
AROCKIA NAGAR, SARUGANI - 630411.

11.08.2021

MEMORANDUM OF UNDERSTANDING

between

Department of Biochemistry, Idhaya College for Women, Sarugani.

and

Biological & Bioinformatics research centre (BBRC), Trichy, Tamilnadu

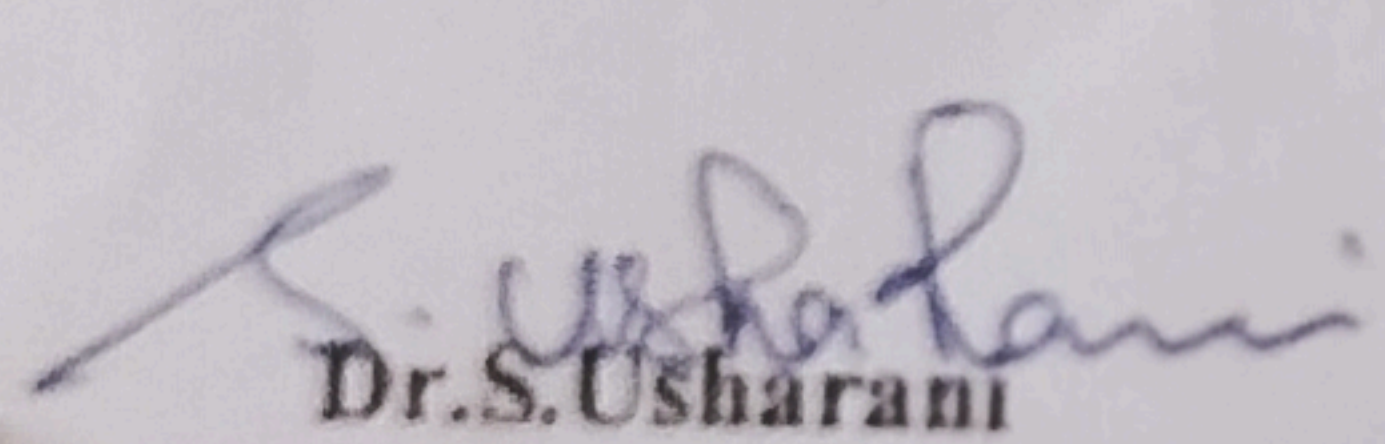
Department of Biochemistry, Idhaya College for Women, Sarugani and Biological & Bioinformatics Research Centre (BBRC), Trichy, TamilNadu, for the purpose of furthering co-operation in academic research, hereby affirm their intent to promote research exchange as will be of mutual benefit for their respective institutions. Research exchange is considered here to include but not be limited to :

- (i) Development of mutually beneficial research programs;
- (ii) Research & extension
- (iii) Co-ordination of such activities as transfer of technology and joint research publications;
- (iv) Exchange of documentation & research materials in fields of mutual interests.

Details of the implementation of any particular exchange resulting from this agreement shall be negotiated between the two institution as such specific case may arise, & is subject to availability of sufficient funds.

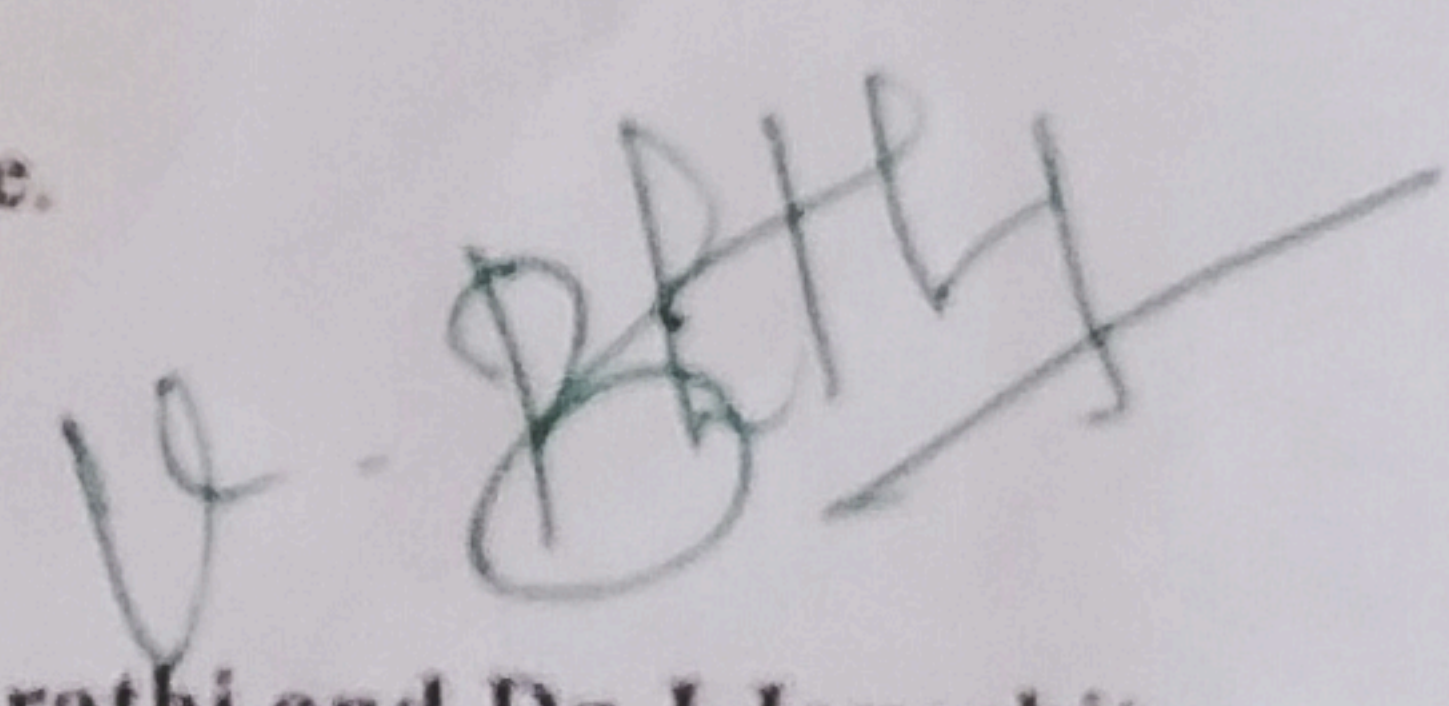
This agreement to promote academic exchange and Co-operation will be valid for three years and is subject to revision, renewal or cancellation by mutual consent.

This agreement becomes effective upon completion of signature.


Dr. S. Usharani

Head of the Department

Department of Biochemistry
Idhaya College for Women,
Arockia Nagar, Sarugani-630411,
Sivagangai Dist-Tamil Nadu.


Dr. V. Bharathi and Dr. J. Jayachitra

Directors

Biological & Bioinformatics Research Centre(BBRC),
Trichy, Tamil Nadu.

Rev. Dr. C. Jothimary,

Principal

Idhaya College for Women,

Arockia Nagar, Sarugani-630411,

Sivagangai Dist-Tamil Nadu.

The Principal

Idhaya College for Women

Arockia Nagar - Sarugani

Sivagangai Dt - 630 411

Dr. V. BHARATHI, M.Sc., M.Phil., B.Ed.,
SET, PGDBI, Ph.D.,

Director

Biological and Bioinformatics
Research Centre, Trichy-621 216.



தமிழ்நாடு தமில்நாடு TAMIL NADU 04AC 665015

25/4/22 இயல் சரூகனி
செவ்வியல்


ச.சுந்தரபாண்டியன், எம்.ஏ.,
உரிம எண்: 3719/ஆ/195
நகர் குத்திரத்தாள் விற்பனையாளர்
சிவகங்கை-தமிழ்நாடு.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred as "MoU") is entered into on **25th day of April, 2022** by and between Department of Computer Science, Idhaya College for Women, Arockia Nagar, Sarugani, Sivaganga District - 630411, Tamilnadu, represented by its authorised representative **Rev. Dr. C. Jothimary, Principal, Idhaya College for Women, Sarugani** (hereinafter referred to as **First Party**)

and

UK Info Tech, #1, AMM Complex Second floor, Thilagar Thidal, Pudukkottai represented by its authorised representative **Mr. U. Karthikeyan, Director, (hereinafter referred to as Second Party).**


The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411


U.KARTHIKEYAN MCA, M.Phil.,
Director, UK INFO TECH,
PUDUKKOTTAI - 622 001.

1. OBJECTIVE

The Core objective is to establish a long-term linkage with UK Info Tech to reduce the gap between industry expectations (practice) and academic offerings (theory) addressing internship, final year projects, incubation, entrepreneurship, personality and community development.

2. SCOPE

(a) The key benefits from UK INFO TECH to ICW are:

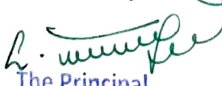
- Providing practical training of ICW computer science department students for their internship and final year projects
- Training students, faculty and technical staff in entrepreneurial skills, job skills and personality development
- Collaborating in joint educational, extension programs
- Mentoring for innovation and incubation activities
- Delivering expert lectures in software related areas and job skills
- Organizing FDPs, workshops in Software, entrepreneurial related areas and job skills
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(b) The key areas in which ICW can benefit UK INFO TECH:

- The existing expertise available with ICW can be utilized by UK Info Tech for joint outreach and community development activities.
- ICW will train the staff of UK Info Tech in Domain areas as per their needs.
- ICW will provide a large talent pool of students and faculty to assist UK Info Tech in training activities.

3. GENERAL

- This MoU shall construe to be a binding contract between the parties in respect of the subject matter of the MoU only.


The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411


U. KARTHIKEYAN MCA., M.Phil.,
Director, UK INFO TECH,
PUDUKKOTTAI - 622 001.

- This MoU shall be effective from the date of last sign off and shall continue to be in force and **effect for a period of April 2022 to May 2023 (1 Year)** from the effective date. This MoU shall be terminated by either of the parties as by First Party by providing 03 months notice to the Second Party or as mutually agreed between the parties during the initial period and by Second Party by providing 03 months notice.
- This MoU shall constitute the entire understanding with regard to the Purpose set forth in this MoU and shall supersede any agreement existing between the Parties.

4. MONITORING AND IMPLEMENTATION

The Coordination committee consisting of the Head of the Institution, a senior faculty member from ICW, and the Director of UK Info Tech will look into the monitoring and implementation of the various aspects of the MoU. an Annual review will be conducted to monitor the progress and furtherance of the activities covered under the MoU.

5. SIGNED IN DUPLICATE

This MoU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity with effect from **25th day of April, 2022.**

BY SIGNING BELOW, the parties acting by their duly authorized officers have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.


Authorised Signatory of First Party
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411


Authorised Signatory Second Party
U. KARTHIKEYAN MCA., M.Phil.,
Director, UK INFO TECH,
PUDUKKOTTAI - 622 001.

Witness:

1.

2. 



3. Terms and Conditions

- All activity conducted under this MOU will be in accordance with all applicable rules and regulations of the home and host colleges and all applicable federal state and local laws, rules and regulations.
- Both the colleges may work to develop a visible and sustainable model for improving and enriching this collaboration with the approval of the appropriate administrative officials of the respective institutions. The programme coordinators may supervise the developments to carry out this collaborative successfully.

4. Coordinators

- Both the colleges designate the following officials as coordinators, who are responsible for the Co-ordination and implementation of this agreement:

IDHAYA COLLEGE FOR
WOMEN,SARUGANI

Mrs.P.Arockia Vimala,
Assistant Professor and Head,
Department of Mathematics,
Idhaya College for Women,
Sarugani

Email –arockiavimaladvk@gmail.com

Mobile No: 9443978547

SREE SEVUGAN ANNAMALAI
COLLEGE,DEVAKOTTAI

Dr.T.Kannan,
Assistant Professor and Head (i/c),
Department of Mathematics,
Sree Sevugan Annamalai College,
Devakottai.

Email –hardykannan@gmail.com

Mobile No: 9942526688


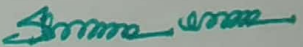

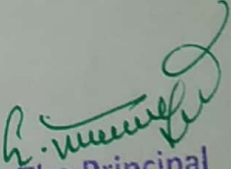
- In the absence of the coordinator at any circumstance, the College will designate a new coordinator of their own choice for the implementation of this agreement and that will be duly conveyed to the other College with the proper reason for the change of coordinator within a month.

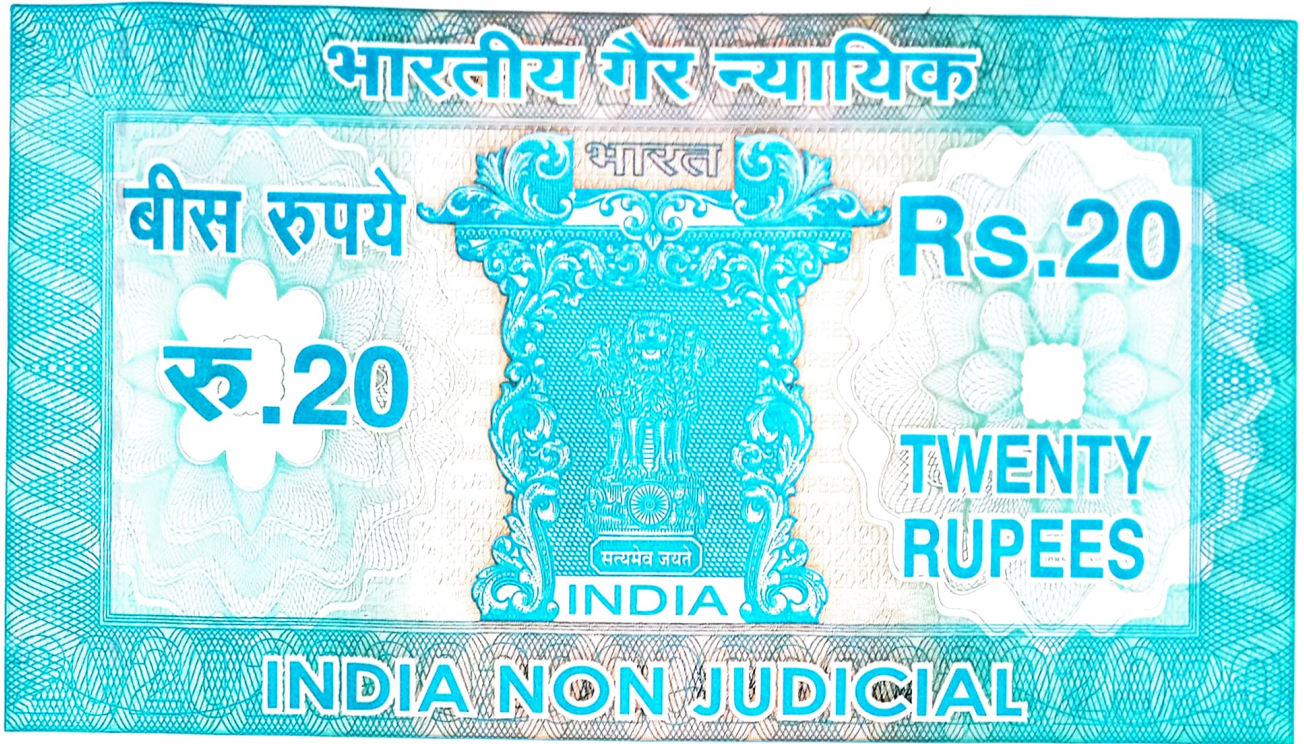
5. Duration of MOU

- The agreement will come into effect from the date of its signing and shall be valid for a period of Two years.
- The MOU will be considered for renewal after two years from the date of signing..
- Either of the colleges may terminate the agreement at any time during the term by providing three months written notice to the other college.

6. Signing and Witness

- This MOU is agreed upon by the Secretaries and Principals of both the colleges.
- In witness of faculties of Department of Mathematics of both the Colleges, there of the Principals of both the colleges have signed on the date above mentioned.

S.NO	NAME OF THE COLLEGE	SIGNATURE OF THE PRINCIPAL WITH SEAL
1	SREE SEVUGAN ANNAMALAI COLLEGE, DEVAKOTTAI. 	 PRINCIPAL Sree Sevugan - Annamalai College DEVAKOTTAI 630 303.
2	IDHAYA COLLEGE FOR WOMEN, SARUGANI. 	 The Principal Idhaya College for Women Arockia Nagar - Sarugani Sivagangai Dt - 630 411



தமிழ்நாடு தமில்நாடு TAMIL NADU

00AC 813244

Srinivasan



09/03/2022
values vruksha pvt ltd
chennai

S. VIJAYALAKSHMI
STAMP VENDOR
LNO:11/561/2008
South Neda Street,
Thiruvananthapuram - 610 010.
Cell: 984 99 287

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is signed on this 28th March 2022 between

Values Vruksha Private Limited a registered private limited company under the Companies Act, 2013 having its registered office at **No.2/122, First Floor, B-Block, Thanthondri Amman Koil Street, ECR-Uthandi, Chennai - 600 119** hereinafter called the "**Training Partner**" (which expression shall, unless repugnant to the context, includes its successors and assignees of the Training Partner.

AND

Idhaya College for Women, situated at **Arockia Nagar, Sarugani, Sivagangai - 630 411, Tamilnadu** represented by the **Head of the Department**, Department of Commerce (CA) hereinafter called the "**Institution**" (which expression shall, unless repugnant to the context, include its successors and assignees of the "Institution")

(Handwritten signature)

WHERE AS both parties are united by common interests and objectives and are hereby agree to collaborate for the purpose of initiating, developing and implementing various students training programs such as GST Practitioner Training, Income tax Practitioner Training, Certified Accounting Professional etc., and the Institution agreeing to utilize its resources for conducting such training.

A. TRAINING PARTNER:

The Institution hereby authorizes (subject to meeting the eligibility requirements & the payment of prescribed fees & dues by Institution to Training Partner) the Training Partner to act as their External Trainer for a period of **Three years** initially, extendable to such periods as are recommended for approval by the Institution from time to time.

B. INSTITUTION:

The Institution will be responsible for providing the syllabi, curricula of the programs to be offered by the Institution for the conduct of training programs to be offered by the Training partner & to render monitoring/ guidance support to the Institution as an authorized Training Partner. The content, Syllabi, & curricula shall be designed, keeping in mind the Industry requirements.

The Institution will not add to, subtract from or substitute all or any of the above at a future date or alter the duration of training and / or number of trainees in its training courses without the approval of the Training partner. In all matters concerning training and certification under this scheme, the Institution shall provide the systems and procedures.

The Institution shall appoint a Jury from among the names recommended by the Institution to examine performance of the students training and issue certificates to the successful candidates trained under the approved programs. For all such examination the Institution shall compensate Jury members for their expertise and time devoted to this task, as per the fee structure decided by the Institution.

The Institution shall pay the fees as per the attached enclosure, which shall be treated as an integral part of this MoU.

The Training partner shall depute one observer with the Institution. The observer may participate the entire training programs & conducts the observation work on a regular basis. The Institution shall ensure the provision of resources of space, equipment, material and other facilities (Please refer annexure I) as required by the Training partner.



Roles and Responsibilities:

a) Develop Capability to deliver training in proposed sector/sectors

Training Partner shall make endeavours for nominating well experienced training faculty members for imparting training from amongst their existing or suitable external faculty members with appropriate skills and knowledge.

To meet the core training need, in line with industrial requirements, training partner shall make endeavours for enhancing the practical training systems, facilities, infrastructure (as per annexure I) and laboratories available with Institution. In case if Institution becomes unable to enhance such setup, it would work with the Institution to secure external arrangements to meet such deficits and extra costs for industrial deputation. The cost of such external arrangements shall be borne by the Institution.

b) Mobilization and Registration of students

It will be the responsibility of the selected Institution to have a registration desk immediate after the orientation session to facilitate registration.

Marketing activities like banners, brochures and leaflets can also be distributed to promote registration of students.

c) Batch formation and training calendar

The Training Partner allocated in each college/ district will joint work out a batch plan and training calendar for each college.

d) Appointment of dedicated Nodal Person

A dedicated Nodal Person will have to be appointed for the project.

The Nodal Person will provide periodical updates to Institution team.

e) Provide course material and session plan.

Training Partner may print and/or provide soft copy, as appropriate, the required course material and distribute among the students.

The session plan will be developed to suit time-table changes.

The session plan will include all components of skill based training with a clear schedule of training and assessment.



f) Delivery of trainings (Theory and Practical)

The Training Partner will ensure delivery of theory component as per the curriculum provided.

It is mandatory to include practical, hands on training sessions so that the students can practice the learnt concepts of the job role. The Institution will have to be innovative to install hand-on training/demo set ups for the students.

g) Reporting and Monitoring

The training partner should ensure that:

- Providing periodical progress reports to Institution and colleges
- Compliance to Institution processes of entering details in the required format
- Prior information to Institution for assessment and certification.

h) Fee Collection

The selected Institution will collect the training fee directly from the student. All such Fees shall be collected on behalf of and in name of training partner shall remit into the bank account of training partner.

i) Assessment and Certification

The performance of the students will be assessed/ examined by the training team.

The students will be awarded certificates as per template of certificates approved by the institution and training partner mutually.

SETTLEMENT OF DISPUTES:

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Agreement or the interpretation thereof. If any dispute, difference, question or disagreement arises between the Parties hereto or their respective representatives or assignees, in connection with construction, meaning operation, effect interpretation of the Agreement or breach thereof which Parties are unable to settle mutually within 30 days from the commencement of settlement proceedings, the same shall be referred to Arbitration.



CONFIDENTIALITY:

None of the parties shall disclose to any person or use for any purpose any confidential information of the other as a result of entering into this Agreement. The Institution without prior permission in written with the training partner should not use any course content, material, presentation etc., either directly or indirectly for any purpose.

VALIDITY & TERMINATION:

The validity of this MoU shall be **Three Years** initially from the date of signing the same and thereafter extended through mutual consent.

This MoU could be terminated by giving a notice of 1 month from either side, however the first right of refusal / acceptance shall be that of the Training Partner.

In witness we set our hands to this Memorandum of Understanding.

For Values Vruksha Private Limited


Authorised Signatory



For Idhaya College for Women


Authorised Signatory

The Principal

Idhaya College for Women,
Kockia Nagar - Sarugani
Sivagangai Dt - 630 411

Witness:

Signature: A. Rajalakshmi

Name : A. RAJALAKSHMI
w/o D. Nagaraj
2/81 Middle Street.
Melakkaraandhai

R. Vijayalakshmi
Dr. R. VIJAYALAKSHMI
Asso. prof. and Head
Dept. of Commerce with CA
Idhaya College for Women
Sarugani.

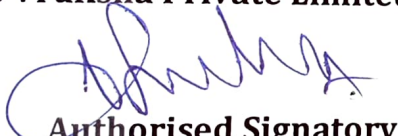
INFRASTRUCTURE REQUIREMENT:

S.No	Description
1.	Digital Classroom/Seminar Hall/Conference Hall - Based on students seating capacity
2.	Audio System - Speaker & Mike
3.	LCD Projector & Screen - For PPT
4.	Computer Lab with internet facility

Note:

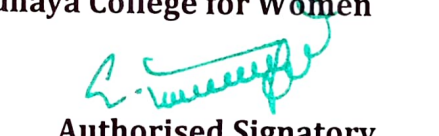
- The course fee shall be paid in accordance with the terms and conditions agreed mutually.
- The programs will be conducted during the working hours as per the schedule agreed mutually.

For Values Vruksha Private Limited


Authorised Signatory



For Idhaya College for Women


Authorised Signatory
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411



தமிழ்நாடு தமில்நாடு TAMIL NADU Madurai 27.11.2021 Madurai Sivakasi Nadars 95AB 291177

Pioneer Meenakshi Women's College
Poovanthi

MADURAI SIVAKASI NADAR'S PIONEER
MEENAKSHI WOMEN'S COLLEGE
POOVANTHI-630.611

பி.ஆர். சூமிநாத்,
ஆர்.ஒ.சி. நிர் 9125/0
முத்தரைத்தாள் கிறிபகையம்
117, பேலஸ் ரோடு, மதுரை-625 001



AGREEMENT FOR COLLABORATION ACTIVITIES

This agreement for collaboration activities is entered into records on 1st December 2021 by and between, the Department of Commerce (CA), Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi, duly represented by the Principal, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi and the Department of Commerce (CA), Idhaya College for Women, Sarugani, duly represented by the Principal of Idhaya College for Women, Sarugani and is applicable for the academic years 2021-2022 and 2022-2023.

As per this agreement, both institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity. The two institutions shall seek to promote:

- The exchange of faculty to the mutual benefit of both institutions.
- Collaboration in teaching and consultancy studies in the field of mutual interest.
- The exchange of academic materials and publications.
- Conducting lectures by prominent academicians in the area of interest.
- Conducting and participating in seminars, symposiums and other types of academic discussions.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed.

The Collaboration policy will be as follows:

- By a home institution, we mean the institution where a student is a full-time student, and from where she is expected to graduate.
- By host institution, an institution that receives a student for a brief period of time to undertake a pre-determined programme of study.
- Exchange of students will be selected by mutual agreement between the home institution and the host institution.
- To permit students, staff and faculty members to use library facility.

R. Raja Raju
PRINCIPAL 11/12/21
 Principal
 Madurai Sivakasi Nadars Pioneer Meenakshi
 Women's College, Poovanthi
Meenakshi Women's College
Poovanthi-630 611

A. Suresh
PRINCIPAL
 Idhaya College for Women,
 Sarugani
The Principal
Idhaya College for Women
Arockia Nagar - Sarugani
Sivagangai Dt - 630 411

WITNESS

N. Gomel
Head, Department of Commerce (CA)
 Madurai Sivakasi Nadars Pioneer Meenakshi
 Women's College, Poovanthi

R. Veeraj
Head, Department of Commerce (CA)
 Idhaya College for Women,
 Sarugani
Head of the Department
Commerce with Computer Application

Sudha
IQAC Coordinator
 Madurai Sivakasi Nadars Pioneer Meenakshi
 Women's College, Poovanthi

S. Jitha
IQAC Coordinator
 Idhaya College for Women,
 Sarugani
CO-ORDINATOR, IQAC
IDHAYA COLLEGE FOR WOMEN
Arockia Nagar, Sarugani
Sivaganga (Dist)-630 411



சுப்பிரீமா @ தமிழ்நாடு TAMIL NADU ரூ.20/

21665
25.10.2021

அனந்தா கல்யாணர்
செய்தகாலம்

96AB 008024

R. சரஸ்வதி
S.R.O வண்பர்
9424 / 1/87.2
9-12-87
தேவகோட்டை

General Memorandum of Understanding

This Memorandum of Understanding is made and executed on 26th day of
OCTOBER 2021

Between

PG and Research Department of Commerce with Computer Applications

Idhaya College for Women

Sarugani - 630411.

Sivagangai District

&

PG Department of Commerce with Computer Applications

Ananda College

Devakottai-630303

Sivagangai District




Principal
Ananda College
Devakottai - 630 303
Sivagangai Dist.

Idhaya College and PG Department of Commerce with Computer Applications

Idhaya College is a minority institution, founded according to the vision and mission of Rev. Fr. Louis Savenien Dupuis, a missionary who hailed from France to India, and runs by the sisters of Immaculate Heart of Mary Congregation, Pondicherry. Aspire to Achieve is the cherished motto of our college. To uphold the dignity of women and to emancipate them through education, the college has committed itself to uplift economically weak and socially backward students. Gathering bookish knowledge does not make the collegiate education complete, students must be taught the importance of service to the society.

PG Department of Commerce with Computer Applications, Idhaya College

The department of Commerce with Computer Application, established in the year 2005 with the view to give deeper understanding of both Information Technology and Commerce, thereby enabling the budding graduates to pursue careers in either of the two fast-growing areas, viz. IT Industry, Commerce and Financial Sector. In order to meet out the demand, we have started M.Com CA in the year 2014. Now we have attained the status of Research Centre from 2018. The department provides platform for exhibiting the talents of the students' thorough its club "stegno". It organizes guest lectures, career counseling, workshops, conferences, internship training and industrial visits. It feels pride in producing more number of rank holders from its inception.

Ananda College and PG Department of Commerce with Computer Applications

Ananda College, founded and managed by the R.C. Diocese of Sivagangai, is a catholic minority co-educational and self-supporting institution; its educational service with a "Shine in Love" is oriented to the poor students of backward districts of Sivagangai and Ramnad. To form students to face the challenges of life in a dignified manner, esteeming fellow humans and the world as sacred and to produce the following vital aptitudes in its students; the ability to think clearly, acquire knowledge of the past and present, envisage the future, develop skill to do service, and continue all these for creating a healthy and self-reliant community.

PG Department of Commerce with Computer Applications, Ananda College

PG Department of commerce with computer application was started in the year 2004, with the aims at the holistic development and amelioration of the student community by involving them deeply in all the programs of the department. Some of them are like Star Riser club, Intra-disciplinary seminars, cultural events, arranged guest



lectures by experts in divergent disciplinary, Industrial training programmes and Industrial visits and campus interview sessions. It is the pride of the department in producing university rank holders every year.

Understanding between the parties

Recognizing the mutual benefits of collaborative activities in promoting international understanding, Ananda College and Idhaya College agree to explore the feasibility of establishing frameworks and co-operative activities in educational endeavors. Such co-operation may include but is not limited to the following:

1. Guest lecture to the Students at UG and PG level.
2. Collaborate with seminar and other co - curricular activities
3. Give training among the students in soft skills
4. Placement Activities
5. Exchange the staff for conducting research programmes

The above terms may be modified by mutual consent as and when required by an addendum.

Terms and Conditions of MOU

The specific terms, expenses and other matters arising related to the implementation of any aspects of this MOU shall be discussed in detail by the parties concerned for each case. Any commitment of resources financial or otherwise, for co-operative activities shall be made in a supplemental MOU/Agreement for that specific purpose entered into at a subsequent date and approved by the official authority and signed by authorized signatory of each institution.

Roles and responsibilities

Both Ananda College and Idhaya College will nominate one individual from their institution as its primary representative in charge of co-operative programs. Individual projects implemented under this MOU or its supplements will be jointly planned and supervised by the nominees of both the parties. The parties agree to consult periodically concerning the status of the above mentioned activities and other relevant matters of mutual interest.



Validity

This Memorandum of Understanding will be effective for a period of Five years from the date of signing and is subject to change, renewal by mutual consent.

Confidentiality

Both parties agree that they shall not utilize any information received from each other or from student data base for any purpose other than for conducting the agreed program.

Arbitration

All or any disputes arising out of this MOU are subject to only arbitration jurisdiction. In case of arbitration both the parties shall appoint the arbitrators and both parties will have to be present during the arbitration proceedings if any.

General

- a) Termination of this MOU may be made by mutual consent or by either party giving the other party three months' notice in writing.
- b) The captions used in this MOU are for convenience only and are not intended for legal effect
- c) If any provision or portion thereof of the MOU is invalid or unenforceable under any applicable statute or rule of law, it is to that extent to be deemed omitted.
- d) The parties have read this MOU and agree to be bound by all its terms. The parties agree that there are no conditions precedents. The parties further agree that this MOU and the services constitute the complete exclusive statement of the MOU between them and supersede all proposals, oral or written and all other communications between them relating to the terms and conditions of this MOU and the services.

Accepted, agreed and signed by the parties on the date, month and year stated here above

Head,

PG Department of Commerce with Computer Applications

Idhaya College



[Handwritten Signature]
Principal

Idhaya College

Sarugani

[Handwritten Signature]
Head,

PG Department of Commerce with computer Applications

Ananda College

Devakottai *The Head*
Dept. of Commerce with
Computer Application
Ananda College
Devakottai - 630 303
Sivagangai District

[Handwritten Signature]
Principal

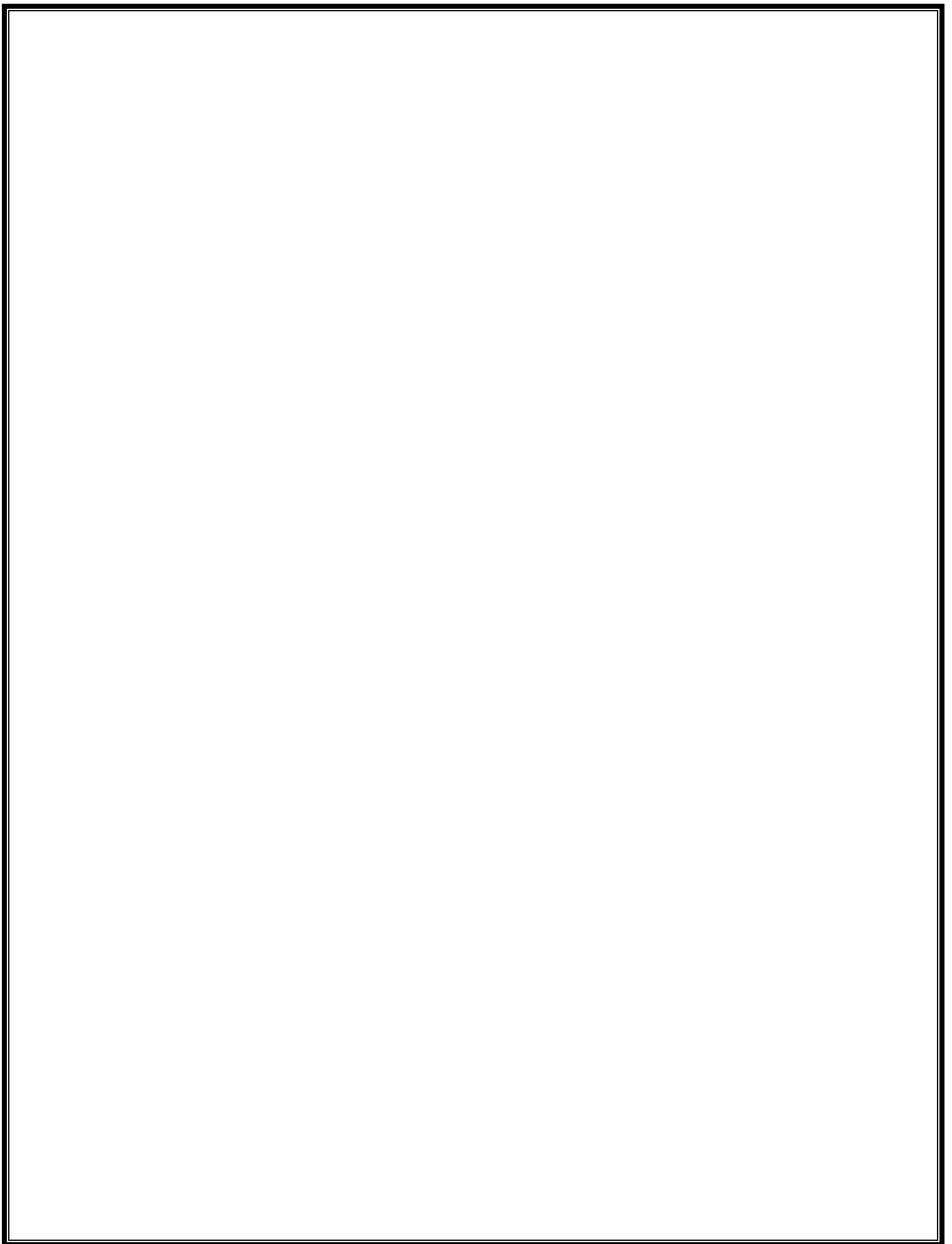
Ananda College
Ananda College
Devakottai 630 303
Sivagangai Dist



Staff

Publications

ISBN / ISSN



Staff Publications (2021-2022)UGC CARE LIST / SCOPUS/ OTHERS						
S.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	ISSN number	Link to the recognition in UGC
1	Mobile Wallet-The Next Generation Digital Marketing	Dr. S.Selvarani	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
2	Financial Inclusion in India an Overview	Dr.C.Jothi Mary	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
3	Financial Inclusion in India an Overview	Dr. S.Selvarani	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
4	Entrepreneurship Financial Literacy: A Roadmap to Economic Development of India	Dr. S.Selvarani	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
5	Foreign Direct Investment In India & Tamil Nadu - An Overview	Mrs.S.Mercy	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
6	An Economic Analysis of Labor Migration in Thanjavur District, Tamil Nadu	Dr.S.Sobitha	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
7	Impact of Export Finance in Pre and Post Shipment Credit on Leather Industry Provided by Commercial Banks	Mrs.R.Jayanthi	B.Com	Journal of Management & Entrepreneurship	ISSN:2229-5348	
8	Regulated Market - An Overview	Dr. R.Kanmalar	B.Com CA	Journal of Management & Entrepreneurship	ISSN:2229-5328	
9	Workers Satisfaction in Women Industries in Dindukal Dist	Dr. S.Vimala	B.Com CA	Journal of Management & Entrepreneurship	ISSN:2229-5328	
10	A Comprehensive Study on the Usefulness of Creative Writing and ICT in English Language Teaching	<u>Dr.Sr.K.Vijaya@Sabin Mary</u>	English	Shodha Prabha	ISSN: 0974-8946	
11	A Comprehensive Study on the Usefulness of Creative Writing and ICT in English Language Teaching	Mrs.SP.Visalakshi	English	Shodha Prabha	ISSN: 0974-8946	
12	Green Banking Services in India and Abroad	Mrs.R.Jayanthi	B.Com	Journal of Emerging Technologies and Innovative Research	ISSN:2349-5162	https://www.jetir.org/view?paper=JETIR2112361
13	A Study on Bankers perception Towards Export Finance on Leather Industry Provided by Selected Commercial Banks in Vellore District	Mrs.R.Jayanthi	B.Com	Academy of Marketing Studies Journal	ISSN:1528-2678-26-S1-02	https://www.abacademies.org/articles/A-study-on-bankers-perception-towards-export-finance-1528-2678-26-S1-021.pdf


14	Homomorphism and Anti Homomorphism Functions In Bipolar Vague Sub rings of a Ring	Mrs.B.Deeba	Mathematics	International Journal of Mathematical Archive	ISSN:2229-5046	https://www.ijma.info
15	On Alpha Split Domination in Graphs	Dr.K.Suriya prabha	Mathematics	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences	ISSN:0369-8203	https://www.springer.com/journal/40010
16	Silambil Samayam Sarntha Nambikaikal	Dr.R.Rameswari	Tamil	Sarvathesa Tamil Aaivithazh	ISSN:2582-11131	https://irjt.iiorpress.org/index.php/irjt/article/view/1055/721
17	Role of Microfinance in Rural Development	Dr.R.Vijayalakshmi	B.Com CA	Journal of Emerging Technologies and Innovative Research	ISSN:2349-5162	http://www.jetir.org/view?paper=JETIR2112485
18	Customers Satisfaction Level Towards Green Banking Services in Selected Public Sectors Banks in Sivagangai Dist	Dr.R.Vijayalakshmi	B.Com CA	International Journal of creative research thoughts	ISSN:2320-2882	http://www.ijert.org/papers/IJERT2112406

Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during year (2021-2022)

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	ISBN/ISSN number of the proceeding
1	Dr.S.Selvarani	Principles of Insurance	Principles of Insurance	(-)	ISBN- 978-81-953729-4-2
2	Dr.S.Selvarani	Banking Theory	Banking Theory	(-)	ISBN- 978-81-953729-5-9
3	Dr.S.Selvarani	International Trade	International Trade	(-)	ISBN- 978-81-953729-6-6
4	Dr.S.Selvarani	Women's Social & Economical Issues and Challenges	Trials & Tribulations of Working Women's in the Society	Virtual International Conference on Women's Social & Economical Issues	ISBN-978-81-948096-5-4
5	Dr.S.Selvarani	Women Empowerment and Leadership	Women Rights- Ancient History	(-)	ISBN-978-81-948096-5-4
6	Dr.S.Selvarani	Multi Disciplinary in Education Commerce and Management Research	Rural Entrepreneurship in India	Multi Disciplinary in Education Commerce and Management Research	ISBN-978-81-953729-1-1
7	Dr.S.Sobitha	Banking Theory	Banking Theory	(-)	ISBN- 978-81-953729-5-9
8	Dr.S.Sobitha	Women's Social & Economical Issues and Challenges	The Feminism Movement in India	Virtual International Conference on Women's Social & Economical Issues	ISBN-9788194809654
9	Dr.S.Sobitha	Empowering Women	Women Leadership and Empowerment	(-)	ISBN-9789355937506
10	Dr.S.Sobitha	Multi Disciplinary in Education Commerce and Management Research	Recent Technology in Banking& Financial Services Industry in India	Multi Disciplinary in Education Commerce and Management Research	ISBN-9788195372911
11	Mrs.S.Mercy	Principles of Insurance	Principles of Insurance	(-)	ISBN- 978-81-953729-4-2
12	Mrs.S.Mercy	Multi Disciplinary in Education Commerce and Management Research	Financial Inclusion: An Challenges Faced by Bank Customer	Multi Disciplinary in Education Commerce and Management Research	ISBN-9788195372911
13	Mrs.S.Mercy	Women's Social & Economical Issues and Challenges	Challenges Faced by Women Workers In India	Virtual International Conference on Women's Social & Economical Issues	ISBN-9788194809654
14	Mrs.R.Jayanthi	Women's Social & Economical Issues	Challenges & Problems Faced by Women in India	Virtual International Conference on Women's Social & Economical Issues	ISBN-9788184809654
15	Mrs.R.Jayanthi	Multi Disciplinary in Education Commerce and Management Research	Beneficiaries Awareness Level towards MGNREGA Scheme in Sivagangai	Multi Disciplinary in Education Commerce and Management Research	ISBN-9788195372911
16	Dr.R.Rameswari	Pannattu Tamilaivu Minnithal	Silapathikarathil Samugam	Aran International E-Journal of Tamil Research	ISSN:2582 – 399X
17	Mrs.M.Soniya	Shanlax International Journal of Arts and Science and Humanities	Pirapanjan Sirukathaikalil Manithaneyam	Tamil Ilakkiyankalil Manithaneyam	P-2321 – 788X
18	Mrs.M.Soniya	Shanlax International Journal of Arts and Science and Humanities	Samaya Pothunokku	Tamil Ilakkiyankalil Pothuvudaimai Koorukal	P-2321 – 788X
19	Dr.K.Lakshmi	Shanlax International Journal of Arts and Science and Humanities	Tamil Ilakkiyankalil Pothuvudaimai Koorukal	Tamil Ilakkiyankalil Pothuvudaimai Koorukal	P-2321 – 788X
20	Dr.AL.Amutha	Pannattu karutharangam, Tamil Ilakkiyankalil Manithaneyam	Natrinayil Mantharkalin Manithaneyam	Tamil Ilakkiyankalil Manithaneyam	P-2321 – 788X

21	Dr.AL.Amutha	Modern Tamizh Research	Natrinayil Pen Vayilkalin Aazhumai	Illakiyangalil Pengalin Aazhumai	ISSN: 2321-984X
22	Dr.AL.Amutha	Pannattu Tamil Pathipagam	Velinattil Tamilarkalin Vizhakkal, Nambikkal, Samayam sarntha vaazhviyal Muraikal	Ulagath Tamilarkalin Varalarum Vazhviyalum	ISBN:978-81-955012-5-0
23	Dr. S. Helen	Proceedings of International conference on Recent Trends in Renewable Energy and its Applications	Effect of Pure and Cu & Zn Doped CdO Thin Films Using Spray Pyrolysis Technique	International conference on Recent Trends in Renewable Energy and its Applications	ISBN: 978-93-93253-58-3
24	Ms. B. Sankavi	Proceedings of International conference on Recent Trends in Renewable Energy and its Applications	Effect of Molar Concentrations Change in Structural and Optical Studies of CdO Thin Films Using SOL-GEL Dip Coating	International conference on Recent Trends in Renewable Energy and its Applications	ISBN: 978-93-93253-58-3
25	Mrs. M. Ramya	Proceedings of International conference on Recent Trends in Renewable Energy and its Applications	Influence of Molar Concentration Changes in Structural and Optical Studies of ZnO Thin Films by Silar Method	International conference on Recent Trends in Renewable Energy and its Applications	ISBN: 978-93-93253-58-3
26	Mrs. S. Sasikala	Proceedings of International conference on Recent Trends in Renewable Energy and its Applications	Effect of Pure and Cu & Zn Doped CdO Thin Films Using Spray Pyrolysis Technique	International conference on Recent Trends in Renewable Energy and its Applications	ISBN: 978-93-93253-58-3
27	Dr.S.Usharani	Compendium of chapters in modern bodren biology	Hematobiochemical Studies and Oxidative stress and Antioxidant status in Workers Exposed to Saw Mill Workshop	Compendium of chapters in modern bodren biology	ISBN:978-93-93737-39-7
28	Mrs.S.Mumthaj begam	An Interventions of Biological Sciences in 21st Century	Fish Amino acid is a Bio-Fertilizer in Organic Farming	An Interventions of Biological Sciences in 21st Century	ISBN:978-93-93737-34-2
29	Mrs.T.Saranya	An Interventions of Biological Sciences in 21st Century	Fish Amino acid is a Bio-Fertilizer in Organic Farming	An Interventions of Biological Sciences in 21st Century	ISBN:978-93-93737-34-2
30	Mrs.S.Jothi	Compendium of chapters in modern bodren biology	Hematobiochemical Studies and Oxidative stress and Antioxidant status in Workers Exposed to Saw Mill Workshop	Compendium of chapters in modern bodren biology	ISBN:978-93-93737-39-7
31	Dr.R.Vijayalakshmi	NIU International Journal of Human Rights	Consumer Awareness Towards Online Shopping With Special Reference To Sivagangai District	NIU International Journal of Human Rights	ISSN:2394-0298
32	Dr. R.Kanmalar	Multi Disciplinary in Education Commerce and Management Research	Innovative Practices in Banking Sector	Multi Disciplinary in Education Commerce and Management Research	ISBN-978-81-953729-1-1
33	DR.S.Vimala	Multi Disciplinary in Education Commerce and Management Research	Opportunities and Challenges of Neo Bank- An Overview	Multi Disciplinary in Education Commerce and Management Research	ISBN-978-81-953729-1-1
34	MRS. M.Janaki	Multi Disciplinary in Education Commerce and Management Research	An Overview of Recent Developments in Digital Marketing	Multi Disciplinary in Education Commerce and Management Research	ISBN-978-81-953729-1-1

35	MRS.A.Sahaya Stella	Multi Disciplinary in Education Commerce and Management Research	An Over of Business Process Outsourcing Industry In India	Multi Disciplinary in Education Commerce and Management Research	ISBN-978-81-953729-1-1
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Arockia Nagar - Sarugani
Sivagangai Dt - 630 411

SWAYAM & NPTEL



IDHAYA COLLEGE FOR WOMEN

(Accredited by NAAC with "A" Grade (CGPA:3.15) & ISO 9001:2015 Certified Institution)
(Recognized by UGC with 2(f) & 12(B), Affiliated to Akagappa University, Karaikudi)

AROCKIA NAGAR, SARUGANI - 630 411, Sivagangai Dt. - 630 411.

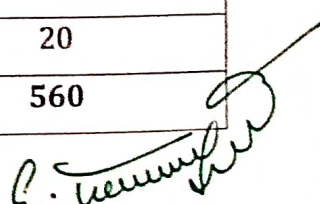
Date : 10.08.21.

REPORT

Mrs. M. Gayatri, Coordinator of NAD/SWAYAM cell organized an Orientation Programme on "How to Register the MOOC/SWAYAM/NPTEL Online courses and the benefits of the courses". As a result of conducting this programme, our students got clear idea and also registered their names in the web portal. They have registered the courses related to their subjects and update the knowledge.

Beneficiaries List

S.NO	DEPARTMENT	NO.OF STUDENT REGISTERED
1.	BA (TAMIL)	44
2.	BA(ENGLISH)	37
3.	BBA	22
4.	B.COM	91
5.	B.COM(CA)	44
6.	BIO CHEMISTRY	13
7.	CHEMISTRY	52
8.	COMPUTER SCIENCE	94
9.	BCA	49
10.	MATHEMATICS	62
11.	PHYSICS	32
12.	FASHION TECHNOLOGY & COSTUME DESIGNING	20
TOTAL		560



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Add on Program

Number of Students completed the Add on /Certificate programs (2021-2022)		
1		
Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
TAMIL TYPING - BAMINI FONT	6 Months	49
SPOKEN ENGLISH	30 Hours	200
INCOME TAX PRACTITIONERS	1 Week	114
GST PRACTITIONERS	1 Week	39
ENTREPRENEURSHIP DEVELOPMENT PROGRAMME	1 Week	15
INTRODUCTION TO STOCK MARKETS	1 Week	14
DMLT	2 Year	19
SOFTWARE TOOLS FOR CHEMDRAW, MNOVA & COMPUTATIONAL CHEMISTRY	1 Month	94
ADVANCED WEB DESIGN & DEVELOPMENT	30 Hours	101
MS-OFFICE	6 Months	244
ADVANCED EXCEL	1 month (30 hours)	94


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