Criterion: III – Research Innovation and Extension
3.7 Collaboration. Year 2018-2023

3.7.1 Number of functional MoUs /linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

➢ **MoU Activities 2021 - 22**

Year of signing MoU	Name of the organization with whom MOU/Collaboration being signed	Duration	Purpose of MOU/Collaboration	List the actual activities under each MOU year-wise	Date of the activity conducted
2019	Government Museum, Thirunelveli	3	Academic Collaboration	Spot Study at Krishnapuram Temple and Government Museum, Tirunelveli	07.12.2021
2020	Annammal College of Education for Women, Thoothukudi	5 years	Academic Collaboration	Conduction of short term course on Child Psychology for B Ed students	21.6.2021 to 1.7.2021
2020	Annammal College of Education for Women, Thoothukudi	5 years	Academic Collaboration	Guest lecture on the topic Theories of Intelligence	22.02.2022
2020	Annammal College of Education for Women, Thoothukudi	5 years	Academic Collaboration	Judge for Virtual Inter school art competition on "Gender equality: A road to productivity on 28.02.2022	28.02.2022

2021	Maitri Training and Counselling Centre Psychology	5 years	Academic Collaboration	Organised a Webinar on "Mental Health During COVID 19"	25.07.2021
2021	Maitri Training and Counselling Centre Psychology	5 years	Academic Collaboration	Organised a Webinar on "Let's Talk Mental Health"	27.06.2021
2021	Institute of Mental Health & Psychological Sciences (IMHAPS) Psychology	5 years	Academic Collaboration	Organised an Association Meeting on Management of Behavious Addiction	25.02.2022
2021	EXAM 360 Coimbatore Mathematics	5 years	Training Programme	Aptitude- Make it Easy	03-09-2022
2021	EXAM 360 Coimbatore Mathematics	5 years	Training Programme	Workshop - Smart Work and Strategic Thinking	03.09.2022
2021	Williams Research Centre	4 years	Academic Collaboration	Departement of Microbiology and William Research Centre, Nagercoil conducted an International conference on Multidisciplinary Approach on Conversation of Nature for your future	13.12.2021 to 15.12.2021
2021	Holy Cross College (Autonomous), Nagercoil	3 years	Academic Collaboration	Dr. F. Mary Priya, Assistant Professor of English ID: ENGR017-Question Paper Setter	07.10.2021
2021	Holy Cross College (Autonomous), Nagercoil	3 years	Academic Collaboration	Ms. M. Mangalaeswari, Assistant Professor of English ID: ENGR014- Question Paper Setter	11.04.2021
2021	Holy Cross College (Autonomous), Nagercoil	3 years	Academic Collaboration	Onlin quiz was conducted on International Francophonic Day	20.03.2022
2021	Million Hopes Academy, Thoothukudi	3 years	Academic Collaboration	A One Day Workshop on Unlocking the Potenialities with Soft Skills	31.03.2022
2021	Digisailor 1st Floor, PSS Jayam Towers, Teachers Colony, Thoothukudi-628001	3 years	Internship	Intership & Project on Content Writer, Web Designer and Program Developer	2021-22

2020	Annammal College of Education for Women, Thoothukudi	5 years	Academic Collaboration	Sharing of Lab Equipment	20.01.2022
2021	Digisailor 1st Floor, PSS Jayam Towers, Teachers Colony, Thoothukudi-628008	3 years	Project	S. Santhiya, Department of Computer Science(SSC)-Web Devloper	27.06.2021 to 27.12.2021
2021	Holy Cross Home Science College, Thoothukudi	3 years	Academic Collaboration	National Seminar on Cross Cultural Readings of Indian Literature in Translation on 05.05.2022	05.05.2022
2021	Holy Cross Home Science College, Thoothukudi	3 years	Academic Collaboration	Dr. B. Serena Margaret, Associate of English ID: ENGR009-Academic Audit on 20.12.2021	20.12.2021
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms.J. Jumana Takeina Banu, M.Sc Computer Science on Web Development Project	15.02.2022 to 05.03.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. Lishanthini M, Department of Computer Science(SSC), ID:20SPCS10 on Web Development	18.01.2022 to 10.02.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. G. Mathi, M.Sc Computer Science on Web Development Project	17.01.2022 to 10.02.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. J. Praveena, M.Sc Computer Science on Web Development	15.02.2022 to 05.03.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-	3 years	Internship	Radha P, Department of Computer Science(SSC), M.Sc Computer Science on Web Development	15.02.2022 to 05.03.2022

	628003				
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. G. Sahaya Naveetha, M.Sc Computer Science on Web Development	15.02.2022 to 05.03.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. K. Sangeetha, M.Sc Computer Science on Web Development	15.02.2022 to 05.03.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. B. Santhanalakshmi, M.Sc Computer Science on Web Development	15.02.2022 to 05.03.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. H. Sathya Bala, M.Sc Computer Science on Web Development	15.02.2022 to 05.03.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Internship	Ms. R. Ramya, M.Sc Computer Science on Web Development	17.01.2022 to 10.02.2022
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Novel Deep Learning Approach for Malware Classification" by Lishanthini M, Department of Computer Science(SSC), ID:20SPCS10	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Online Exam Surveillance using Image Processing" by Radha P, Department of Computer Science(SSC), ID:20SPCS16	May-22

2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Gift Distribution system" by Ramya R, Department of Computer Science(SSC), ID:20SPCS17	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Facial Expression Recognition using Fast Frequency Neural Network" by Sahaya Naveetha G, Department of Computer Science(SSC), ID:20SPCS18	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Eye Detection Mobile Application" by Sangeetha K, Department of Computer Science(SSC), ID:20SPCS19	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Crop Yield Prediction using Deep Reinforcement Learning" by SathyaBala H, Department of Computer Science(SSC), ID:20SPCS22	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Crude Oil Price Prediction" by Santhanalakshmi B, Department of Computer Science(SSC), ID:20SPCS20	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Gold Loan Processing System Application" by Mathi G, Department of Computer Science(SSC), ID:20SPCS12	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-628003	3 years	Project	"Speed Determination of Vehicles using Image Level Features" by Praveen J, Department of Computer Science(SSC), ID:20SPCS15	May-22
2021	Postulate Info Tech., 212, New Colony Road, Pudugramam Thoothukudi-	3 years	Project	" Vehicle Loan and RTO Service System" by Jumana TakcinaBanu J, Department of Computer Science(SSC), ID:20SPCS07	May-22

	628003				
2021	Sadkathullah Appa College(Autonomous), Rahmath Nagar, Tirunelveli- 627 011	5 years	Research	Dr. M. Paripooranaselvi, Assistant Professor of Zoology ID: ZOOR013-Book Chapter Published Title of Book Chapter: Marine Nutraceuticals: Challenges and opportunities, Topic: Tunicates as nutritious food	Jul-21
2021	Sadkathullah Appa College(Autonomous), Rahmath Nagar, Tirunelveli- 627 011	5 years	Research	Dr. M. Paripooranaselvi, Assistant Professor of Zoology ID: ZOOR013-Book Chapter Published Title of Book Chapter: Climate change: Impact on environment Topic: Climate change: Risks and Rescue of marine organisms	2021
2021	Sadakathullah Appa College(Autonomous), Tirunelveli	5 years	Academic Collaboration	Dr. S. Jeya Bharathi, HoD and Assistant Professor of Psychology, ID: PSYS001-BOS meet-Framing of syllabus on 01.10.2021	01.10.2021
2021	Sadakathullah Appa College(Autonomous), Tirunelveli	5 years	Academic Collaboration	Dr. S. Jeya Bharathi, HoD and Assistant Professor of Psychology, ID: PSYS002- External Examiner-UG Major End Semester Practical on 04.01.2022	04.01.2022
2021	Sadakathullah Appa College(Autonomous), Tirunelveli	5 years	Academic Collaboration	Dr. S. Jeya Bharathi, HoD and Assistant Professor of Psychology, ID: PSYS002- Board of Studies	02.05.2022
2021	Sadakathullah Appa College(Autonomous), Tirunelveli	5 years	Academic Collaboration	Dr. S. Jeya Bharathi, HoD and Assistant Professor of Psychology, ID: PSYS002 - Evaluation of end semester answer scripts on 24.02.2022 - 28.02.2022	24.02.2022 - 28.02.2022
2021	The Institutes of Chartered Public Auditors of India	Lifetime	Training Programme	Career Oriented Course on Chartered Public Auditor - Level 1	05.07.21 to 30.07.21

2021	Aagam Kalaiyagam	3 years	Academic Collaboration	Muthamil Paelarangam	18.02.2022
2019	Government Musemum, Thirunelveli	3 years	Academic Collaboration	Webinar- International Sculpture Day	22.09.2021
2019	Government Musemum, Thirunelveli	3 years	Academic Collaboration	Webinar - Museology - The Primary Source of History	2021-22
2019	Government Musemum, Thirunelveli	3 years	Academic Collaboration	Spot Study - Varukalthalai -Jain Bed	2021-22
2019	Government Musemum, Thirunelveli	3 years	Academic Collaboration	An Interactive session with Hisrorian Mr.S. Diwan	2021-22
2019	TekSpear Solutions	3 years	Internship	Project on Chronic Care Management by Ms. G. Akila, M.Sc Computer Science	15.02.2022 to 07.03.2022
2019	TekSpear Solutions	3 years	Internship	Project on Patient Care Plan -N.Iswarya Lakshmi, M.Sc Computer Science	15.02.2022 to 07.03.2022
2019	TekSpear Solutions	3 years	Internship	Project on Annual Welnness Visit - M. Karimunisha, M.Sc Computer Science	15.02.2022 to 07.03.2022
2019	TekSpear Solutions	3 years	Internship	Project on Remote Patient Monitoring - K.Maheswari , M.Sc Computer Science	15.02.2022 to 07.03.2022
2019	TekSpear Solutions	3 years	Internship	Project on Internet of Things Hub - P.Nancy , M.Sc Computer Science	15.02.2022 to 07.03.2022
2021	Sadakathulla Appa College(Autonomous), Tirunelveli	5 years	Academic Collaboration	Dr. F. Mary Priya, Assistant Professor of English ID: ENGR017-Question Paper Setter & External Evaluation	28.09.2022
2021	Shakespeare Talent Examination	3 years	Academic Collaboration	112 students from the Department of English appeared for the Shakespeare Talent Examinations	20.11.2021

Principal
St. Mary's College (Autonomous) Thoothukudi-628 001.

St. Mary's College (Autonomous)

PG and Research Department of English

Activities carried out under MoU with Shakespeare Publications signed from 2021-2024

Shakespeare Talent Examination (2021 -2022)

112 students from the Department of English appeared for the Shakespeare Talent Examinations conducted on 20th November 2021. The exam was conducted online. All the three State Level Prizes were backed up by our college students. M. Vishnu Priya of III B.A. English won the First Prize at the State Level, J. Jaffrin Jennifer of I B.A. English won the Second Prize and B. Steena and B. Vibinsa of II B.A. English won the third Prize at the State Level respectively.

Two faculty members, Ms. X. Amala Steffi and Ms. A. Patricia Romila were adorned with special awards for their contribution in motivating students to take up the talent examinations.

Head of the Department

Head
Research Department of English
St.Mary's College (Autonomous)
Thoothukudi - 628001

2.
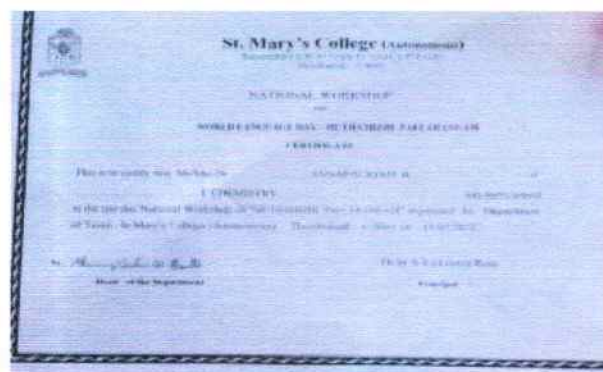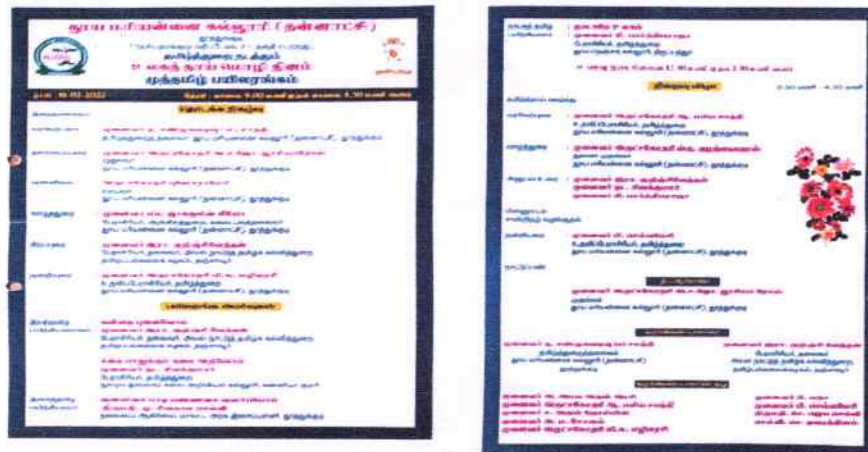
Title: World Language Day-Muthamil Paelarangam - Kavithai Punaivom,Kathai Sethukkum Kalai Arivom,Innisai Paadi Pannisai Valarppom,Naadagamae Ulagam

Date: 18.02.2022

Speaker: 1. Dr.Kurinchi Veathan,Associate Professor,Tamil University,Thanchavoor.

2. Dr.N.Siva kumar,Assoviate Professor,Nooral Islam Arts and Science College, Kanyakumari.

3. Mrs. M.Sivagama Sunthari,Govt.Music School,Thoothukudi.

4. Dr.K.Parthiba Raja,Asst.Professor,Holy Cross College, Thirupathur.

No of Students Attended : 450

Report: On 18th February .World Language Day-Muthamil Paelarangam was conducted on the Topic "Kavithai Punaivom,Kathai Sethukkum Kalai Arivom,Innisai Paadi Pannisai Valarppom,Naadagamae Ulagam", Dr.Kurinchi Veathan,Associate Professor,Tamil University,Thanchavoor, Dr.N.Siva kumar,Assoviate Professor,Nooral Islam Arts and Science College, Kanyakumari, Mrs. M.Sivagama Sunthari,Govt.Music School,Thoothukudi, Dr.K.Parthiba Raja,Asst.Professor, Holy Cross College, Thirupathur, were the resources person and the beneficiaries were nearly about 450 students.

Head of the Department

IQAC Co - ordinator

Principal

HOD of Tamil
St. Mary's College (Autonomous)
Thoothukudi - 628001

IQAC Co-ordinator
St. Mary's College (Autonomous
Thoothukudi

St. Mary's College (Autonomous)
Thoothukudi-628 001.

20-01-2022

Dr. S. Jeyabharathi

Head of the Department of Psychology

St. Mary's College (Autonomous)

Thoothukudi

Respected Madam,

Warm greetings! We are organizing Psychology Practical for our B.Ed. students in the last week of January. As we feel it would be time saving and convenient if we could have additional apparatus for a few experiments, we request you to lend the following apparatus for three days:

- Tachistoscope – 1
- Muller Lyer Illusion Apparatus- 1

If you agree, we will make arrangements for collecting them. We will return them back safely after three days.

Thanking you

Yours sincerely,

PRINCIPAL

PRINCIPAL
ANNAMMAL COLLEGE
OF EDUCATION FOR WOMEN
THOOTHUKUDI-628 003

Annammal College of Education for Women

01-02-2022

Dr. S. Jeyabharathi

Head of the Department of Psychology

St. Mary's College (Autonomous)

Thoothukudi

Respected Madam,

  We are thankful to you for lending us a Tachistoscope and a Muller Lyer Illusion Apparatus for the conduct of Psychology Practical for our B.Ed. students. We have conducted the practical and we are returning the apparatus. Please collect the same from the person bearing this letter and acknowledge the receipt of the apparatus.

      Thanking you

Yours sincerely,

PRINCIPAL

PRINCIPAL
ANNAMMAL COLLEGE
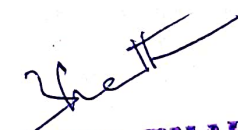OF EDUCATION FOR WOMEN
THOOTHUKUDI-628 003

Brochure:
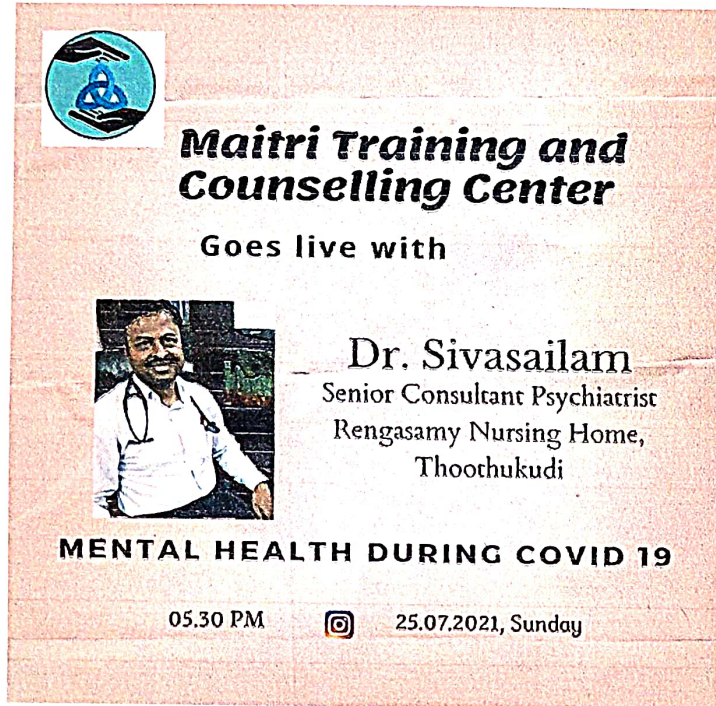
Report:

    The department of Psychology along with Maitri organized a Webinar on 25.7.2021 on the topic Mental health during COVID 19. Dr. Sivasailam, Psychiatrist, Thoothukudi was the resource person. He addressed around 109 participants that included the students and the general public on the topic and created awareness.

Dr.S.JEYA BHARATHI
Co-Ordinator
Department of Psychology
St.Mary's College (Autonomous)
Thoothukudi - 628 001

Brochure
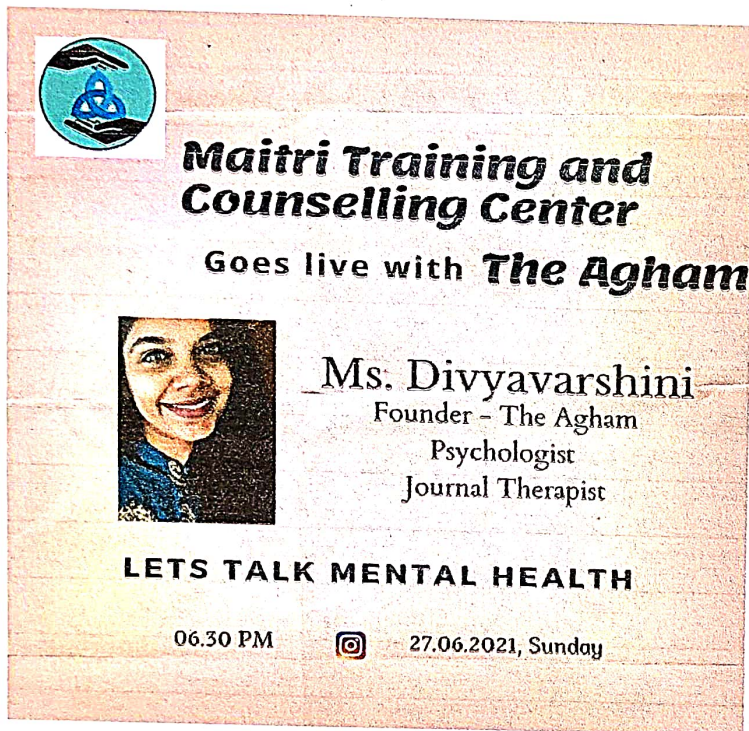
Report:

The department of Psychology along with Maitri organized an Awareness Webinar on the topic Let's talk mental health on 27.6.2021. Ms. Divyavarshini, Founder, Agham AND Journal Therapist, Coimbatore was the resource person. 95 participants including the Psychology students and general public were the beneficiaries.

Dr. S. JEYA BHARATH
Co-Ordinator
Department of Psychology
St.Mary's College (Autonomous)
Thoothukudi - 628 001

THE **PSYCHOLOGY CLUB**
of
ANNAMMAL COLLEGE
OF EDUCATION FOR WOMEN
organises
Special Session
on
"THEORIES OF INTELLIGENCE"

60
DIAMOND JUBILEE YEAR
1962-2022
Annammal College of Education For Women

11:00 am | February 22, 2022

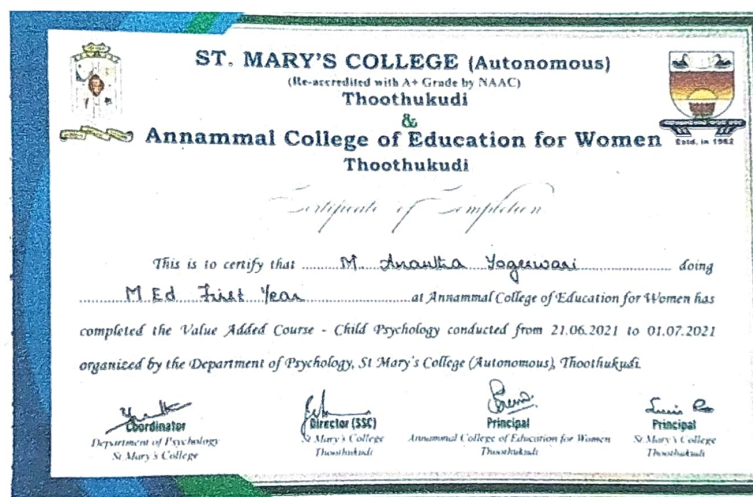**Shenbagamurthy Hall**

Resource Person

Dr.S. Jeyabharathi
Assistant Professor and Head,
Department of Psychology.
St. Mary's College, Thoothukudi.

VALUE ADDED COURSE – CHILD PSYCHOLOGY REPORT

REPORT:

As a part of the MOU signed with Annammal College of Education for Women, Thoothukudi, the Department of Psychology conducted a Value Added Course on Child Psychology for the First Year M Ed students in the academic year 2021-2022. The syllabus was framed by the Psychology Department Course and the course duration was from 21.6.2021 to 1.7.2021. Thirty students were enrolled in the course and were benefitted.

CERTIFICATE:

ST. MARY'S COLLEGE (Autonomous)
(Re-accredited with A+ Grade by NAAC)
Thoothukudi
&
Annammal College of Education for Women Estd. in 1982
Thoothukudi

Certificate of Completion

This is to certify that .... M. Anautha Yageswari .... doing
.... M.Ed First Year .... at Annammal College of Education for Women has
completed the Value Added Course - Child Psychology conducted from 21.06.2021 to 01.07.2021
organized by the Department of Psychology, St Mary's College (Autonomous), Thoothukudi.

Coordinator	Director (SSC)	Principal	Principal
Department of Psychology	St Mary's College	Annammal College of Education for Women	St Mary's College
St Mary's College	Thoothukudi	Thoothukudi	Thoothukudi

Dr.S.JEYA BHARATHI
Co-Ordinator
Department of Psychology
St.Mary's College (Autonomous)
Thoothukudi - 628 001

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name Of Faculty with Designation and Staff Id	Dr. S. Jeya Bharathi Assistant Professor, Dept. of Psychology, SMC PSYS001
2	Name of the collaboration faculty with designation	Principal, Annammal College of Education for Women, Thoothukudi
3	Name of the collaboration organization	Annammal College of Education for Women, Thoothukudi
4	Nature of collaboration (Academic/ Research/ Faculty exchange/ BOS/ Examiner/ Student exchange/ Project/ Internship/ On the job training	Academic (28.2.2022)
5	Nature/ Details of outcome (Guest lecture/ DC Member/ Guide/ Co guide/ Project reports/ Publications/ Sharing of research resources like lab, library, industry/ Others	Judge for Virtual Inter school art competition on " Gender equality: A road to productivity"
6	Financial involvement, If any.	No
7	Proof attached	Yes

Signature of Faculty   Signature of the Collaborating Faculty   Signature of IQAC Coordinator

Dr.S.JEYA BHARATHI
Co-Ordinator
Department of Psychology
St. Mary's College (Autonomous)
Thoothukudi - 628 001

PRINCIPAL
ANNAMMAL COLLEGE
OF EDUCATION FOR WOMEN
THOOTHUKUDI-628 003
Principal

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC 2021 - 2022

ANNAMMAL COLLEGE OF EDUCATION FOR WOMEN

Certificate of Appreciation

Awarded to

Dr. JEYA BHARATHI S

Assistant Professor & Head, Dept. of Psychology,
St. Mary's College (Autonomous), Thoothukudi.

who has served as a Judge in the **Virtual Inter-School Competition** on the theme: **'Gender Equality: A Road to Productivity'** held for the upper primary school children on 28.02.2022 organized by the Tamil Club and Women Development Cell of Annammal College of Education for Women, Thoothukudi. She has ably judged the competitors in the events **Poster Making and Doodle Art**. We wish to have her support in all our future endeavours.

We look forward to her co-operation in future.

Dr. A. JOYCILIN SHERMILA
Principal

St. Mary's College (Autonomous)-Thoothukudi

Department of History

MoU Activity - Spot Study – Iconography and Architecture Krishnapuram Temple

2021-2022

Report

       Spot Study for III UG, I and II PG students was undertaken on 7th December 2021 to Krishnapuram Temple and Government Museum, Tirunelveli. **Mr. Muthalankurichi Kamarasu, Writer and Ms. S. Sathiyavalli, District Curator, Government Museum, Tirunelveli** were explained the significance of architecture and sculptures of Krishnapuram Temple.

B. Serena Margaret

IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

Special Lecture - Museology – The Primary Source of History

2021-2022

Invitation

Report

The department of History organized a webinar on the topic "Museology – The Primary Source of History" on 22nd September 2021. Mrs. S. Sathiyavalli, District Curator, Government Museum, Tirunelveli was the resource person. Faculty members, both UG and PG students participated the webinar.

B. Serena Margaret
IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

St. Mary's College (Autonomous)-Thoothukudi
Department of History
MoU Activity – Pre-Historic Archaeological Site – Adichanallur

2021-2022

Photos
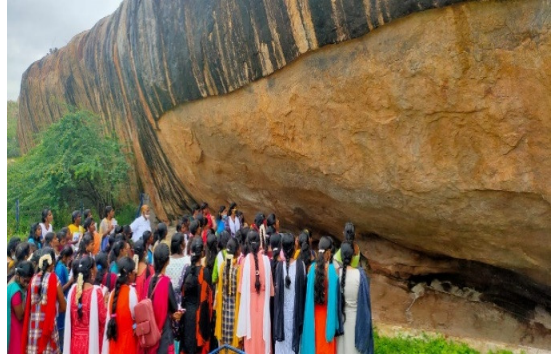
Report

Spot study for I & II UG students was undertaken on 10th December 2021 to Varukalthalai and Adichanallur. Mr. Muthalankurichi Kamarasu Writer, and Mr. Ravi, Supervisor, ASI elucidated the historicity of Adichanallur and Showed the artefacts collected in the recent excavation. Mr. N. Kaaja Muhideen, District Secretary, Tirunelveli and Ms. S. Sathiyavalli, District Curator, Government Museum, Tirunelveli described the inscriptions in the Jain beds of Varukalthalai and the religious influence of Puludaiyar Sastha Swamy Temple.

B.Serena Margaret
IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Luis Rose
Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.
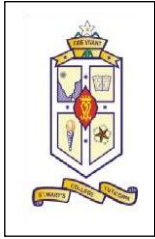
PG AND RESEARCH DEPARTMENT OF COMMERCE

ST. MARY'S COLLEGE (AUTONOMOUS)

(Re – accredited with 'A+ ' Grade by NAAC)

THOOTHUKUDI-628001

2021 -2022

CAREER ORIENTED COURSE
ON
CHARTERED PUBLIC AUDITOR - Level 1

Duration: 40 hours	**Days: 20**
Session: 2p.m. – 4p.m.	**Mode: Offline**
Teaching Methodology: Hands on Training	Course Code: 21CACO51

MoU Activity

Course Instructor: Advocate. Mr. Muthu Kumar Raja, Founder, The Institutes of Chartered Public Auditors, Thoothukudi

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI

PG & Research Department of Commerce

CHARTERED PUBLIC AUDITOR –LEVEL 1 –III B.Com

2020-2021

Duration: 40 hours   **Course Code: 20CACO51**

Aim
1. To understand the concept of public auditor.
2. To help the students to became a chartered public auditor.

Objectives

Learning Objectives	
1	To provide conceptual exposure to students on direct and indirect taxes
2	To understand the scope of auditing in key areas.
3	To make students understand the rules of IT and GST
4	To identify significant changes in various IT laws
5	To enable students to explore the knowledge of taxation

Course Outcome

CO. No	Upon completion of this course, students will be able to	Knowledge Level
1	remember and recall the direct and indirect tax applied for various types of business organization	K 1
2	Identify the key areas relating to IT, GST, EPF, ESI Laws	K 2
3	apply the rules of IT and GST in various forms of business organization	K 3
4	analyse various laws related to IT and GST	K 4
5	demonstrate the knowledge of taxation in preparing the return	K 5

CHARTERED PUBLIC AUDITOR – LEVEL 1

Objective:

To prepare the students to be self –employed.

Outcome of the Course:

To enrich the students to choose their career with confidence.

Part I – Introduction

Introduction to Professional Practice - Commerce Graduates as GST Practitioner - Commerce Graduate as Income Tax Practitioner

Part II - Income Tax Practice

Direct Taxes at a Glance - Basic Concept of Income Tax & Computation of Income under Various Heads - Income Tax Accounting Preparation for Proprietorship, OPC, LLP, Partnership Firm, Limited Companies, Trust, Society - Income Tax E filing System & Procedural Compliance PAN TDS TCS SAT Refund - Income Tax Assessment, Appeals & Revision - Income Tax Practitioner (ITP) Registration

Part III - Goods and Services Tax Practice

Basic of Goods and Services Tax (GST), Concept of Time, Value & Place of Taxable supply - Input Tax Credit & Computation of GST Liabilities - Procedural Compliance Under GST- Debit Note Credit note, E Way Bill, and Refund - GST E Filing GSTR 1, 2A,3B, 4, and 9 Forms ,(Monthly ,Quarterly and Annual Returns) - GST Account s Preparation, and GST Audit - GST (Registration Certificate) Registration & Goods and Services Tax Practitioner Registration

Part- IV - Business Organization / Constitution Formation System

One Person Company Formation - Partnership Firm Registration to Firm Registrar & Limited Liability Partnership Registration - Private Limited and Public Limited Company Registration- Trust, Society, Union Registration

Part V Labour Law Practice

Basic Concepts of Labour Laws - EPF, ESI Laws - EPF, ESI Registration & Monthly Returns- EPF, ESI Accounts, Audit and Appeals

Part VI Business Registration Department Wise Procedures

GST Registration - Micro, Small and Medium Enterprises Registration - Import and Export Code Registration- Foods Safety and Standard Authority of India Registration.

																					Total No. of Day(s) Absent	Percentage of Attendance
CAREER ORIENTED COURSE (2021- 2022) III B.Com - Chartered Public Auditors - Level 1																						
Days	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Date	05.7	06.7	07.7	08.7	09.7	12.7	13.7	14.7	15.7	16.7	19.7	20.7	21.7	22.7	23.7	26.7	27.7	28.7	29.7	30.7	20 Days	40 Hours
Reg.No.	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M	2 - 4 P.M		
19AUCO01	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO03	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO04	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	x	x	1	95
19AUCO05	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO06	Ab	Ab	x	Ab	Ab	x	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	5	75
19AUCO07	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO08	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO09	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	95
19AUCO10	x	Ab	Ab	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	Ab	x	x	4	80
19AUCO11	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	1	95
19AUCO13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	x	x	1	95
19AUCO14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	1	95
19AUCO17	x	x	x	x	Ab	Ab	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	3	85
19AUCO18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	Ab	x	2	90
19AUCO19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO20	Ab	Ab	Ab	x	x	Ab	Ab	Ab	x	x	x	x	x	x	Ab	x	x	x	Ab	x	8	60
19AUCO21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19AUCO23	x	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	2	90

19AUCO24	x	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	95
19AUCO25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO26	x	Ab	Ab	Ab	Ab	Ab	Ab	x	x	Ab	x	x	Ab	x	x	x	x	x	x	x	8	60
19AUCO28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19AUCO32	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO33	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	1	95
19AUCO34	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO35	x	x	x	x	x	Ab	Ab	x	x	Ab	x	x	Ab	x	x	x	Ab	x	x	x	5	75
19AUCO36	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO37	x	Ab	x	x	x	Ab	Ab	x	x	Ab	x	x	x	x	x	x	Ab	Ab	Ab	Ab	8	60
19AUCO38	x	x	x	x	x	x	x	Ab	Ab	x	x	x	x	x	x	x	x	x	x	x	2	90
19AUCO39	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO40	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	Ab	Ab	Ab	x	4	80
19AUCO41	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO43	x	x	x	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO44	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	x	x	x	x	1	95
19AUCO45	x	x	x	x	x	Ab	x	Ab	x	x	Ab	x	x	x	Ab	x	x	Ab	x	x	5	75
19AUCO46	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO47	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	95
19AUCO48	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO49	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO51	x	x	x	x	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	Ab	x	2	90
19AUCO52	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	2	90
19AUCO53	x	x	Ab	x	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	2	90

19AUCO54	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO55	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	1	95
19AUCO56	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO57	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO58	x	x	x	x	x	x	x	Ab	x	x	x	x	Ab	x	x	x	x	x	x	x	2	90
19AUCO59	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO61	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO62	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	Ab	x	x	2	90
19AUCO63	x	x	x	x	x	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	1	95
19AUCO64	Ab	x	Ab	x	x	x	x	x	Ab	x	x	x	x	x	Ab	x	x	x	x	x	4	80
19AUCO65	x	x	x	x	x	Ab	Ab	Ab	x	Ab	Ab	x	Ab	x	x	x	Ab	x	Ab	x	9	60
19AUCO66	x	Ab	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	x	3	85
19AUCO67	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO68	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	Ab	x	x	1	95
19AUCO69	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO70	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO71	x	x	x	x	x	x	Ab	x	x	Ab	x	x	x	x	x	x	x	x	x	x	2	90
19AUCO72	x	x	Ab	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	95
19AUCO73	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO74	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	100
19AUCO75	Ab	x	Ab	x	Ab	x	x	x	x	x	x	x	Ab	x	x	x	x	x	x	x	4	80
Staff in Charge	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R

Staff in Charge   **Head of the Department**   **Principal**

PG and Research Department of Commerce
St. Mary's College (Autonomous) – Thoothukudi
(Re-accredited with 'A+' Grade by NAAC)
Career Oriented Course (2021-2022)
III B.Com
CHARTERED PUBLIC AUDITOR – LEVEL 1

Course Instructor: Adv. Mr. Muthu Kumar Raja, Founder,
The Institutes of Chartered Public Auditors of India, Thoothukudi

Si.No.	Name	Internal Marks	External Marks	Total Marks	Grade
1	T.Agalya	38	46	84	A
2	M.Anciya	42	43	85	A
3	J.Ancy Kiruba	45	46	91	A+
4	A.Angala Parameswari	38	45	83	A
5	R.Antony Lumina	42	44	86	A
6	M.Antony Romeo	42	46	88	A
7	J.Anupama	50	50	100	A+
8	M.N.Arockia Infancy Soris	49	50	99	A+
9	A.Atchaya	43	45	88	A
10	S. B.N.Pushpa	46	46	92	A+
11	J.Bastin Deno	45	44	89	A
12	D.Bhuvaneswari	47	44	91	A+
13	K.Carmel Ashika	46	50	96	A+
14	L.R. Cathrine Shiranthi	47	41	88	A
15	J.Cathrine Shamma	45	46	91	A+
16	J.Cecily Jebasree	47	50	97	A+
17	C.Christilda	48	46	94	A+
18	S.Christy Darwin Dina	44	43	87	A
19	S.Deluxana	43	46	89	A
20	K.S. Elcia Thangam	42	42	84	A
21	M.Godsaya	44	42	86	A
22	S.Hetciyal	46	45	91	A+
23	M.Infiya	43	45	88	A
24	R.Iswarya	44	46	90	A+
25	D.Japhia Wiselin	50	46	96	A+
26	H.Jefrina	43	46	89	A
27	S.Joesy Infanta Snowlin	50	49	99	A+
28	S.Jonelin	45	46	91	A+
29	P.Kavya	47	46	93	A+
30	S.Manasi	43	45	88	A
31	M.Mari Vigneswari	41	46	87	A
32	J.Maria Arockia Nikila	44	42	86	A
33	A.Maria Preethi	44	44	88	A

34	A.Maria Thinsly	32	45	77	B+
35	B.Maria Thommai Melcya Vaz	42	46	88	A
36	A.Maria Abisha	44	46	90	A+
37	N.Mary Alda Slashin	44	48	92	A+
38	Mary Ann Fernandez	46	46	92	A+
39	P.Meena	46	45	91	A+
40	J.Michael Roshini	47	45	92	A+
41	A.Michael Selciya	50	49	99	A+
42	M.Micreet Karunya Anto	47	46	93	A+
43	S.Miracle	45	45	90	A+
44	R.Murugananthi	42	42	84	A
45	P.Muthu Devi	47	45	92	A+
46	R.Nava Roshini	43	46	89	A
47	R.Neffi Fernando	48	46	94	A+
48	V.Pooja	45	47	92	A+
49	P.Praveena	45	50	95	A+
50	A.Prijila	47	50	97	A+
51	S.Princy	46	45	91	A+
52	S.Rajalakshmi	45	45	90	A+
53	R.Ramalakshmi	42	41	83	A
54	A.Rasheedha Banu	45	46	91	A+
55	A.Renuga Priya	49	46	95	A+
56	A.Rexlin Babitha	48	50	98	A+
57	J.Roshini	46	46	92	A+
58	R.Sajana	47	45	92	A+
59	M.Sancta Maryanna	46	42	88	A
60	J.R. Sancta Macrin	44	50	94	A+
61	V.Santhiya Joyce Mary	46	46	92	A+
62	B.Selva Archana	43	46	89	A
63	B.Selvalakshmi	50	50	100	A+
64	R.Sharon	50	50	100	A+
65	R.Shibbani	47	46	93	A+
66	A.Siva Ranjani	42	45	87	A
67	G.Sree Aarthi	34	45	79	B+
68	S.Subbhashini	49	50	99	A+
69	S.Vaishnavi	43	44	87	A
70	G.Yalini Thresa Gomez	42	44	86	A
71	C.Jeya Anusha	44	42	86	A

Report of the Certificate Course 2021--2022

Chartered Public Auditor-level 1 was offered as Certificate Course by the Department of Commerce from 5th July 2021 – 30th July 2021 to the III year B.Com. students. Adv. Mr. Muthu Kumar Raja was the Instructor and the course was held after the regular college hours from 2 p.m. to 4 p.m. The students were made to appear for written test at the end of the programme and were issued certificates with Grade levels according to their percentage of attendance. 74 students benefitted out of this programme.

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI
(Re-accredited with 'A⁺' Grade by NAAC)

CAREER ORIENTED PROGRAMME
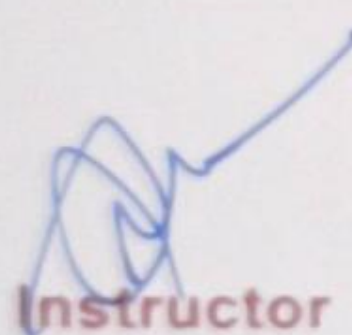
(CERTIFICATE)

This is to certify that Ms. __SNOWLIN RAMANI. T__ of __III B.Com__

has actively participated and successfully completed a course on __CHARTERED__

__PUBLIC AUDITOR - LEVEL -I__ conducted during the academic year

20 __22__ - 20 __23__ with __B__ Grade.

Instructor

Lucia Rose
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Faculty with Designation, Staff ID	C.NayanthraMascarenhas, Assistant Professor of Computer Science(SSC), CPSS001
2	Name of the Collaborating Faculty with Designation	Mr.S.Ilaiyaraja, Founder/CEO, Digisailor, Thoothukudi
3	Name of the Collaborating Organisation	Digisailor, 1st Floor, PSS Jayam Towers, Teachers Colony, Thoothukudi-628008 Mob.No:7904210874
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Internship
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports /Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Web Developer
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Signature of the Collaborating Faculty

Signature of Faculty

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC2021 - 2022

digisʌilor

Software Development | Digital Marketing | Graphic Designing

Date: 30-12-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. SANTHIYA S**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed 06 Months (from 27th June 2021 to 27th December 2021) **Web Development Internship** at **DIGISAILOR**.

During the above mentioned period effective from 02:00 PM - 06:00 PM she has worked on the various Web development projects and we found her cooperative, hardworking and diligent.

We wish all the very best for her future endeavors.

For **DIGISAILOR**

Authorized Signature

digisailor

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Faculty with Designation, Staff ID	C.NayanthraMascarenhas, Assistant Professor of Computer Science(SSC), CPSS001
2	Name of the Collaborating Faculty with Designation	Mr.S.Ilaiyaraja, Founder/CEO, Digisailor, Thoothukudi
3	Name of the Collaborating Organisation	Digisailor, 1st Floor, PSS Jayam Towers, Teachers Colony, Thoothukudi-628008 Mob.No:7904210874
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Internship
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports /Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Web Developer
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Signature of the Collaborating Faculty

Signature of Faculty

Signature of IQAC Coordinator

IQAC, SMC2021 - 2022

Principal
St. Mary's College (Autonomous) Thoothukudi-628 001.

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

digisAilor

Software Development | Digital Marketing | Graphic Designing

Date: 30-12-2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. SANTHIYA S**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed 06 Months (from 27th June 2021 to 27th December 2021) **Web Development Internship** at **DIGISAILOR**.

During the above mentioned period effective from 02:00 PM - 06:00 PM she has worked on the various Web development projects and we found her cooperative, hardworking and diligent.

We wish all the very best for her future endeavors.

For **DIGISAILOR**

Authorized Signature

<div align="center">Department of Mathematics(SSC)

MoU Activity</div>

Academic Year   : 2022 - 2023

Number of Student Participants   : 60

Number of Faculty Participants   : 6

Number of External Participants, If any   : Nil

Expenditure Amount, If any   : Rs. 1000/-

Mode of Session delivery – Offline

Objectives:

- To provide guidance for writing various competitive examinations.

- To gain valuable career information and job related training opportunities.

- To gain the concepts of easy tricks and shortcut methods

Benefits:

The session motivated the students to write various competitive examinations and discovers new opportunities in the future. The students have practised many shortcut methods for multiplication, division and for finding square and cube roots during the session. The session encouraged healthy discussion among students.

Report:

The Department of Mathematics (SSC) organized an Association Meeting on "Aptitude- Make it Easy" on 03 September 2022 at 2.30 pm in the New Hostel Block. Mr. S. Arockia Charles, Freelancer, Aptitude Trainer, Coimbatore was the resource person. The meeting was very informative and interactive. Many tips and tricks, shortcut methods for calculation were taught to the students. 60 students were benefited through this session.

Attachments:

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

Publication Period: January to December　　　**Academic Activities Period: June to July**

1	Name of the Student with Register No.	S.Santhiya 20SPCS21
2	Name of the Collaborating Faculty with Designation	Mr.S.Ilaiyaraja, Founder/CEO, Digisailor, Thoothukudi
3	Name of the Collaborating Organisation	Digisailor, 1st Floor, PSS Jayam Towers, Teachers Colony, Thoothukudi-628008 Mob.No:7904210874
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Safe Campus Management
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Signature of Student　　　Signature of the Collaborating Faculty　　　Signature of IQAC

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous),
Thoothukudi-628 001.

IQAC, SMC 2021 - 2022

Safe Campus Management

A project submitted to

ST. MARY'S COLLEGE (Autonomous), Thoothukudi.

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

In partial fulfilment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

S. SANTHIYA

Reg.No.: 20SPCS21

Under the Supervision and Guidance of
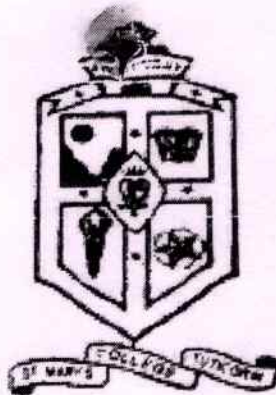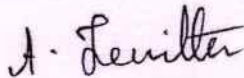
Ms. A. Jenitta Jebamalar MSc (IT).,MSc(CS).,MPhil.,B.Ed.,

PG DEPARTMENT OF COMPUTER SCIENCE(SSC)

St. Mary's College (Autonomous), Thoothukudi-628001
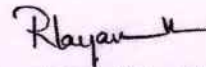
May 2022

CERTIFICATE
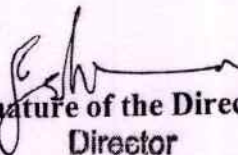
This is to certify that this project work entitled **"SAFE CAMPUS MANAGEMENT"** is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfilment for the award of the degree of Master of Science in Computer Science for the work done during the year 2021-2022 by **S. SANTHIYA** (Reg. No.: 20SPCS21).

Signature of the Guide
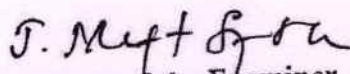
Signature of the Co-ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

digis∧ilor

Software Development | Digital Marketing | Graphic Designing

Date: 14-05-2022

To

The Head Department of the Department
PG Department of Computer Science (SSC)
St. Mary's College (Autonomous)
Thoothukudi.
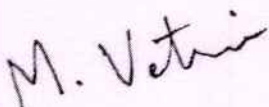
Dear Sir/ Mam,

Sub: Project Completion Certificate-Reg

This is to certify that **Miss.S. Santhiya, Reg No: 20SPCS21 studying M.Sc Computer Science** Final year has done the project work at our concern on **"Safe Campus Management"** during the period from February 2022 to May 2022.

During the above mentioned period she has worked on various projects and we found her cooperative, hardworking and diligent. We wish all the very best for her future endeavors.

For **DIGISAILOR**

M. Vetri

Authorized Signature

digisai
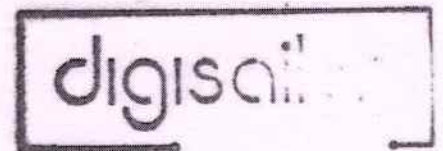
<div align="center">
Department of Mathematics(SSC)

MoU Activity

Report for Workshop – 03.09.2022
</div>

Academic Year   : 2022 – 2023

Number of Student Participants   : 61

Number of Faculty Participants   : 9

Number of External Participants, If any   : Nil

Expenditure Amount, If any   : Rs. 3000/-

Mode of Session delivery – Offline

Objectives:

- To provide the guidance in various competitive examination.

- To gain valuable career information and related job training opportunities.

- To gain an understanding of smart work during competitive examinations.

- To help the learners make appropriate and realistic career choices and career directions.

Benefits:

The session dealt with the short cut methods during competitive exams for the PG students of Mathematics, Computer Science and Chemistry. It motivated the students for competitive examination and discover new opportunities in the future. It enables the problem solving techniques and provides creative insight and look at things in a different way. The session encouraged healthy discussion among students to help them communicative their ideas and opinions freely.

Attachments

Photographs:

Report:

Department of Mathematics (SSC) organized a Workshop on "Smart Work and Strategic Thinking" on 03.09.2022 at 11.30 am for the PG students of the Department of Mathematics, Computer Science and Chemistry of SSC stream. Mr. S. Arockia Charles, Freelancer, Aptitude Trainer was the resource person. The session dealt with the short cut methods during competitive exams and many thought provoking ideas were given to the students.

St. Mary's College (Autonomous) – Thoothukudi
Internal Quality Assurance Cell (IQAC)
Collaborative Activities 2021 - 2022
Academic & Research

1	Name of the Faculty with Designation, Staff ID	Ms. M.Mangalaeswari, Assistant Professor of English, ENGR014
2	Name of the Collaborating Faculty with Designation	Dr. J. Vinoliya Josephine Mary, Controller of Examinations
3	Name of the Collaborating Organisation	Holy Cross College (Autonomous), Nagercoil.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Question Paper Setter
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Other
6	Financial Involvement (if any)	Yes
7	Proof Attached	Yes

Signature of Faculty

Signature of the Collaborating Faculty

Signature of IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC 2021 - 2022

DR. J. VINOLIYA JOSEPHINE MARY
Controller of Examinations

Phone & Fax	**: 04652 - 264340**
Email	: coehccngl@gmail.com
Website	: www.holycrossngl.in

Date : 11-04 -2022

To

M.Mangalaeswari
Assistant Professor in English
St.Mary's College
Thoothukudi
680001
mangalaeswarismc@gmail.com
9043749873

Dear Madam,

Thanks for accepting my request to be a **Question paper** setter in **B.A. & M.A English**

(i)	Course Code	: EC1763
	Title of the Course	: Green Literature
(ii)	Course Code	: PE2043
	Title of the Course	: Core XIV: Comparative Literature

A copy of the syllabus and model question paper are enclosed.

Kindly prepare **one question paper** along with the scheme of valuation which includes key and send the same by **email.** The Email ID is **coehccngl@gmail.com.**

You will be paid a remuneration of Rs. **400/-** for question setting and Rs. **150/-** for the key per paper. I will be grateful if you can send them on or before 20 -04 -2022.

You are requested to maintain **strict confidentiality** on this matter.

Yours Sincerely,

Controller of Examinations

St. Mary's College (Autonomous) – Thoothukudi
Internal Quality Assurance Cell (IQAC)
Collaborative Activities 2021 – 2022
Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Faculty with Designation, Staff ID	Dr.B.Serena Margaret ENGR008
2	**Name of the Collaborating Faculty with Designation**	Principal Holy Cross Home Science College, Thoothukudi
3	**Name of the Collaborating Organisation**	Holy Cross Home Science College, Thoothukudi
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Academic – External Expert - External Academic Audit on 20.12.2021
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Evaluation of Academic activities of the institution
6	**Financial Involvement (if any)**	Yes
7	**Proof Attached**	Yes

B.Serena Margaret
Signature of Faculty

Signature of the Collaborating Faculty

Lucia Rose
Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

B.Serena Margaret
Signature of IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous) Thoothukudi

IQAC, SMC 2021 - 2022

20.12.2021

Certificate

This is to certify that Dr.B.Serena Margaret, Associate Professor, Department of English and IQAC Co-ordinator, St.Mary's College (Autonomous), Thoothukudi, served as an external expert for External Academic Audit on 20/12/2021 in our institution.

PRINCIPAL
HOLY CROSS HOME SCIENCE COLLEGE
52, NEW COLONY,
THOOTHUKUDI - 628 003

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

1	Name of the Faculty with Designation, Staff ID	Dr. F. Mary Priya, Assistant Professor of English, ENGR017
2	Name of the Collaborating Faculty with Designation	Dr. J. Vinoliya Josephine Mary, Controller of Examinations
3	Name of the Collaborating Organisation	Holy Cross College (Autonomous), Nagercoil.
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Question Paper Setter
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Other
6	Financial Involvement (if any)	Yes
7	Proof Attached	Yes

Signature of Faculty

Signature of the Collaborating Faculty

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC 2021 - 2022

HOLY CROSS COLLEGE (AUTONOMOUS)
Re-Accredited with 'A+' Grade (CGPA 3.35) by NAAC
Nagercoil – 629 004
Kanyakumari District, Tamilnadu.

DR. J. VINOLIYA JOSEPHINE MARY
Controller of Examinations

Phone & Fax	**: 04652 - 264340**
Email	: coehccngl@gmail.com
Website	: www.holycrossngl.in

Date :07-10-2021

To

Dr.F.Mary Priya
Assistant Professor in English
St.Mary's College
Thoothukudi
Email id
fmarypriya@gmail.com
9597550476

Dear Madam,

Thanks for accepting my request to be a **Question paper** setter in **English**

(i)   Subject Code   : EC1751
         Title of the paper   : British Literature - IV

A copy of the syllabus and model question paper are enclosed.

Kindly prepare **one question paper** along with the scheme of valuation which includes key and send the same by **email**. The Email ID is **coehccngl@gmail.com.**

You will be paid a remuneration of Rs.**400/-** for question setting and Rs. **150/-** for the key per paper. I will be grateful if you can send them on or before 17-10 -2021.

You are requested to maintain **strict confidentiality** on this matter.

Yours Sincerely,

Controller of Examinations

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	**Name of the Faculty with Designation, Staff ID**	Maria Sahaya Sharmila, Assistant Professor of English ENGS002
2	**Name of the Collaborating Faculty with Designation**	Dr. I. Angeline Priya Assistant Professor of English,
3	**Name of the Collaborating Organisation**	Holy Cross Home Science College, Thoothukudi
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Academic
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports /Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	National Seminar on Cross Cultural Readings of Indian Literature in Translation on 5th May 2022
6	**Financial Involvement (if any)**	-
7	**Proof Attached**	Yes

Maria Sahaya Sharmila

Signature of Faculty

Head.
Department of English (SSC),
St. Mary's College (Autonomous),
Thoothukudi - 628 001.

I Angeline Priya

Signature of the Collaborating Faculty

Lucia Rose

Principal

St. Mary's College (Autonomous)·
Thoothukudi-628 001.

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous
Thoothukudi

St. Mary's College (Autonomous)

(Re-accredited with 'A+' Grade by NAAC)

Thoothukudi, Tamil Nadu

Department of English (SSC)

in collaboration with

Holy Cross Home Science College, Thoothukudi

organizes

A National Seminar

on

Cross Cultural Reading of Indian Literature in Translation

on

5th May, 2022

Patrons

Rev. Sr. Flora Mary
Secretary, St. Mary's College (Autonomous), Thoothukudi

Dr. Sr. A. S. J. Lucia Rose
Principal, St. Mary's College (Autonomous), Thoothukudi

Sr. Josephine Jeyarani
Director (SSC), St.Mary's College (Autonomous), Thoothukudi

Dr. Rev. Sr. Mary Gilda
Secretary and Principal Holy Cross Home Science College, Thoothukudi

Conveners

Ms. Maria Sahaya Sharmila
Asst. Prof. and Coordinator, English (SSC), St. Mary's College (Autonomous), Thoothukudi

Dr. I. Angeline Priya
Asst. Prof. and Head, Department of English, Holy Cross Home Science College, Thoothukudi

Organising Committee

Name	Designation
Ms. M. Hermina	Asst. Prof.
Ms. M. Reeda Albin Mary	Asst. Prof.
Ms. A. Priyanka	Asst. Prof.
Ms. S. Anusia	Asst. Prof.
Ms. M. Rufina Mary	Asst. Prof.
Ms. J. Melba Sharon	Asst. Prof.
Dr. Mary Chrisho	Asst. Prof.
Ms. N. Albansin Viviliya	Asst. Prof.
Ms. S. Janish	Asst. Prof.
Ms. B. Bala Yoga Meena	Asst. Prof.
Ms. S. Dyana Flora	Asst. Prof.
Dr. S. Mazhali Yasoda	Asst. Prof.
Dr. J. Ragu Antony	Assoc. Prof.
Mrs. S. Revathi	Asst. Prof.
Ms. S. Abinaya	Asst. Prof.
Dr. R. Mystica	Asst. Prof.
Ms. R. Infant Lourdu Rashni	Asst. Prof.
Ms. E. Prishal Fernando	Asst. Prof.
Mrs. I. Jesu Jesma	Asst. Prof.

Registration fee: Participation–Rs. 100/-
Presentation: Students - Rs. 200/-
Staff - Rs. 300/-

Account Details:

A/c No. : 3450425172

Name : I. Angeline Priya

Bank : State Bank of India, Muthunagar branch

IFSC : SBIN0014463

Paper Presentation Format:

Kindly follow MLA Handbook 8th Edition for documentation.

Font: Times New Roman

Size: 12 Line Spacing: Double Spacing

Margins: Left – 1.5", Right, Top & Bottom – 1"

Papers must be free from plagiarism

Word Count: 3000 words (excluding abstract and reference)

Abstract: Limit to 175 words (Add 5 key words)

Important Dates:

Last Date for Registration: 25th April, 2022

Last Date for Abstract and Full Paper Submission: 30th April, 2022

Mail id: indianlitseminar2022@gmail.com

Registration Link:
https://forms.gle/ydA3JXFkesdaMWM8

Papers will be published in UGC care list journal.

Individual payment is required for co-authors.

E-Certificate will be provided.

Venue

Holy Cross Home Science College, 52, New Colony, Thoothukudi - 628 003, Tamil Nadu, India

For further enquiries, contact:

Ms. Maria Sahaya Sharmila   9894249619

Dr. I. Angeline Priya   9597142246

About St. Mary's College (Autonomous)

St. Mary's College (Autonomous) was established in the year 1948 by the Congregation of Mother of Sorrows Servants of Mary as the first women's college in Thoothukudi. It has contributed a lot to the development and well-being of women in the coastal region. It is the first and the only autonomous college in Thoothukudi. The College has progressed ahead in the area of education attaining notable accolades in every discipline. Priority in admission is given to disadvantaged, underprivileged and first generation learners.

St. Mary's College (Autonomous) achieved A+ Grade in the 4th cycle of re-accreditation by NAAC on 1st May 2019 with 3.29 CGPA. The academic activities of all disciplines are grouped into five Schools of Excellence to augment research, design pioneering courses, enable efficient teaching, and facilitate effective outcome based learning and to empower the student community to face the global demands of the 21st century. The institution offers 17 undergraduate programmes, 13 post postgraduate programmes, 6 M.Phil. programmes and 6 Ph.D programmes which are globally relevant and competent.

The Department of English (SSC) was established in the year 2002 along with other Self-Financing courses. The department initially offered Part II English. Owing to the growing demand for B.A. English Literature, the Department offers B.A. English Literature (2012), M.Phil (2015) and M.A. English Literature (2019). The Department is endowed with qualified, vibrant and dedicated faculty who work with persistent enthusiasm, bringing students to the forefront of knowledge and holistic growth.

About the Seminar

India is a multicultural, multilingual nation whose literary texts resonate its cultural significance. A study of the trajectory of Indian literature reveals that the art and technique of translation has been the key factor for its growth.

Students of this self-financing course have added laurels to the institution by their dynamic participation in literary competitions in various colleges. The Department has periodically spread its academic vistas by organizing National Seminars, Workshops and Literary Competitions.

About Holy Cross Home Science College

The college was established in 1975 and is administered by the society of the Sisters of the Cross of Chavanod, Madurai province. It is affiliated to Manonmaniam Sundaranar University, Tirunelveli. It has been reaccredited with 'B' grade by NAAC. The college offers quality and affordable education that combines knowledge and skills with personal ethics and social values. There are also special programmes and certificate courses that help students to develop their personality, improve their spoken English and increase their scope for higher studies and employment. The Department of English has qualified and experienced faculty who pay personal attention to students who are slow in studies. The Department also offers certificate courses in French, German, and Spanish and other employment oriented skill development courses that are need based. Coaching classes for NET & SET are also conducted by the department.

Translation plays an inevitable role, in promoting national understanding of the different regional selves in the country. Throughout the ages, translation has paved the way for the relocation and reassertion of the rich Indian tradition in the world scenario. It enhances to explore the best of the beautiful terrain of India. Translation has thus facilitated the transformation of Indian Literature by illuminating unexposed facets of Indian culture. This seminar aims to explicate the cultural diversity of India and the major role of translation in reverberating the unheard voice of the regional literature in India.

Thrust Areas of Research

- Translation of Indian Texts to English as a Colonial Project
- Indian Literature in Translation : Indian Languages into English
- Cultural Issues in Translation of Literary Texts
- Indian Aesthetics
- Crossing Cultural barriers
- Overcoming Linguistics Barriers
- Exploring Common cultural Issues
- Multiculturalism in Indian Literature.

MOU ACTIVITY

DEPARTMENT OF PSYCHOLOGY & IMHAPS PROGRAM

Brochure:

St. Mary's College (Autonomous)
(Re-accredited with A+ Grade by NAAC)
Thoothukudi

Department of Psychology
Organises

ASSOCIATION MEETING

On the Topic

Managemnt of Behaviour Addiction

On

25.02.2022 @ 9.30 a.m.

Resource Person

Dr. P. Thamilselvan

Registered Clinical Psychologist, CBE

Asst. Prof., Dept.of Psychology, PSGCAS

With the Best Wishes

Rev. Sr. Flora Mary, Secretary

Rev. Dr. Sr. A.S.J. Lucia Rose, Principal

Rev. Sr. Josephine Jeyarani, Director, SSC

Report:

As part of MOU existing between the Department of Psychology and IMHAPS, Dr. Tamilselvan, Director of IMHAPS served as the resource person for department Association Meeting held on 25.2.2022 on the topic Management of Behaviour Addiction. 69 UG students of the department of Psychology were the beneficiaries.

Dr. S. JEYA BHARA
Co-Ordinator
Department of Psychology
St.Mary's College (Autonomous)
Thoothukudi - 628 001

St. Mary's College (Autonomous), Thoothukudi

Department of English (SSC)

One day Workshop on "Unlocking the Potentialities with Soft Skills"

Invitation:

ST. MARY'S COLLEGE (AUTONOMOUS)
(Re–accredited with 'A+' Grade by NAAC)
THOOTHUKUDI
THE DEPARTMENT OF ENGLISH (SSC)
in collaboration with
MILLION HOPES ACADEMY
organizes
A One day Workshop on

Unlocking the Potentialities with Soft Skills

Date: 31.03.2022
Venue : Star Hall

Time: 10 am

Resource Person
Ms. S. Jebarathinam Nancy Juliet
Soft Skill Trainer
Million Hopes Academy
Thoothukudi

SOFT SKILLS

Convener

Ms. Maria Sahaya Sharmila
Co- ordinator and Assistant Professor

Organizing Committee

Ms. M. Hermina   Asst. Prof
Ms. M. Reeda Albin Mary Asst. Prof
Ms. A. Priyanka   Asst. Prof
Ms. S. Anusia Asst. Prof
Ms. M. Rufina Mary Asst. Prof
Ms. J. Melba Sharon Asst. Prof
Dr. Mary Chrisho Asst. Prof
Ms. N. Albansin Viviliya Asst. Prof
Ms. S. Janish Asst. Prof
Ms. B. Vionobini Samprasitta Abila Asst. Prof
Ms. B. Bala Yoga Meena Asst. Prof

With Special Blessings from
Rev. Sr. Flora Mary, Secretary
Rev. Dr. Sr. A. S. J. Lucia Rose, Principal
Rev. Sr. Josephine Jeyarani, Director(SSC)

Pictures

Thoothukudi, Tamil Nadu, India
399E/1 6th street, Street Number 4, Cruz Puram, Thoothukudi, Tamil Nadu
628001, India
Lat 8.810527°
Long 78.160357°
31/03/22 10:08 AM

Thoothukudi, Tamil Nadu, India
399E/1 6th street, Street Number 4, Cruz Puram, Thoothukudi, Tamil Nadu
628001, India
Lat 8.810831°
Long 78.160512°
31/03/22 10:24 AM

Certificate

Report

The Department of English (SSC), St. Mary's College (Autonomous), Thoothukudi organized a One day Workshop on the topic "Unlocking the Potentialities with Soft Skills"on 31st March, 2022 at Star Hall. Ms. S. Jebarathinam Nancy Juliet, Soft Skill Trainer, Million Hopes Academy, Thoothukudi was the resource person. Ms. S. Jebarathinam Nancy Juliet, Soft Skill Trainer enlightened the students on the topic "Unlocking the Potentialities with Soft Skills". She spoke on the development of personality, communication and language. She conducted various activities and motivated the students. The students of III B.A English Literature (SSC), I M.A English Literature (SSC) and II M.A English Literature participated in the workshop enthusiastically. The meeting ended with a college anthem.

Head of the Department

Head,
Department of English (SSC),
St. Mary's College (Autonomous),
Thoothukudi - 628 001.

IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal

St. Mary's College (Autonomous)·
Thoothukudi-628 001.

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	JumanaTakcinaBanu.J 20SPCS07
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Vehicle Loan and RTO Service System
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Jumana J.
Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret
Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Lui Pou
Principal

IQAC, SMC2021 - 2022

St. Mary's College (Autonomous)·
Thoothukudi-628 001.

VEHICLE LOAN AND RTO SERVICE SYSTEM

A project Submitted to

ST. MARY'S COLLEGE (AUTONOMOUS), THOOTHUKUDI.

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

in partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

JUMANA TAKCINA BANU. J

Reg. No.: 20SPCS07

Under the Supervision and Guidance of
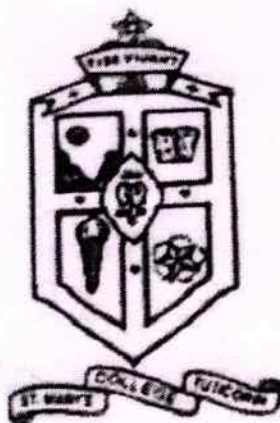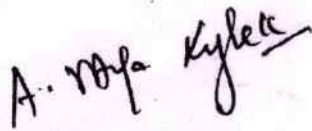
Dr. A. Vithya Vijayalakshmi MCA., M.Phil., Ph.D.,

PG DEPARTMENT OF COMPUTER SCIENCE (SSC)

St. Mary's College (Autonomous), Thoothukudi-628001
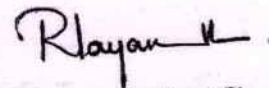
MAY 2022

CERTIFICATE

This is to certify that this project work entitled "**VEHICLE LOAN AND RTO SERVICE SYSTEM**" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to **MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI,** in partial fulfillment for the award of the Degree of Master of Science in COMPUTER SCIENCE for the work done during the year 2021-2022 by **JUMANA TAKCINA BANU. J** (REGNO: 20SPCS07).
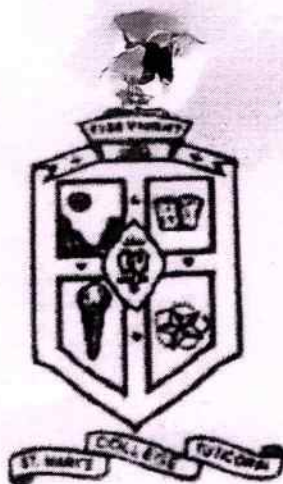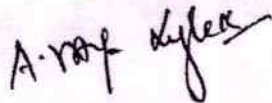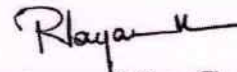
Signature of the Guide
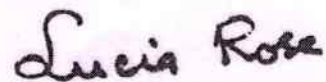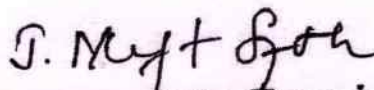
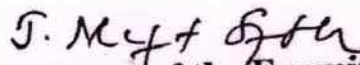**Signature of the Co-ordinator**

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

Scanned with OKEN Scanner

POSTULATE

To

The Head of the Department

PG Department of Computer Science (SSC)

St. Mary's College (Autonomous)

Thoothukudi

Dear Sir/Madam,

Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. J. Jumana Takcina Banu, Reg No: 20SPCS07** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Vehicle Loan and RTO Service System"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	Lishanthini.M 20SPCS10
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:A Novel Deep Learning Approach for Malware Classification
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Lishanthini.M
Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret
Signature of IQAC Coordinator

IQAC Co-ordinator St. Mary's College (Autonomous) Thoothukudi

Luci Rose
Principal

IQAC, SMC2021 - 2022

St. Mary's College (Autonomous)' Thoothukudi-628 001.

A Novel Deep Learning Approach for

Malware Classification

A project submitted to

ST.MARY'S COLLEGE (Autonomous), Thoothukudi.

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

M. LISANTHINI

Reg.No.: 20SPCS10

Under the Supervision and Guidance
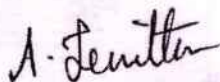
of

Ms. A. Jenitta Jebamalar MSc(IT).,MSc(CS).,MPhil., B.Ed.,

PG DEPARTMENT OF COMPUTER SCIENCE(SSC)

St.Mary's College (Autonomous),Thoothukudi-628001
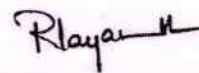
May 2022
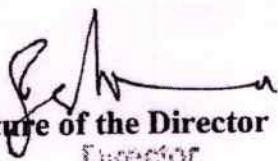
CERTIFICATE

This is to certify that this project work entitled "A NOVEL HYBRID DEEP LEARNING AP-PROACH FOR MALWARE CLASSIFICATION" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfillment for the award of the degree of Master of Science in Computer Science for the work done during the year 2021-2022 by **M. LISANTHINI** (Reg no.: 20SPCS10).

Signature of the Guide
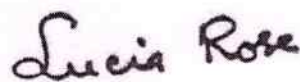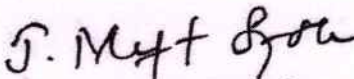
Signature of the Co-Ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous,
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

14-05-2022

To

The Head of the Department

PG Department of Computer Science (SSC)

St. Mary's College (Autonomous)

Thoothukudi

Dear Sir/Madam,

Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. M. Lisanthini, Reg No: 20SPCS10** studying **Master of Computer Science** Final year has been done the project work at our concern on **"A Novel Hybrid Deep Learning Approach for Malware Classification"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	Mathi.G 20SPCS12
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Gold Loan Processing System Application
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

G. Mathi

Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Lucia Rose

Principal

St. Mary's College (Autonomous)'
Thoothukudi-628 001.

IQAC, SMC2021 - 2022

GOLD LOAN PROCESSING SYSTEM APPLICATION

A project submitted to

ST. MARY'S COLLEGE (Autonomous), THOOTHUKUDI

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI

in partial fulfillment of the award of the degree of

MASTER OF COMPUTER SCIENCE

Submitted by

MATHI. G

Regno: 20SPCS12

Under the Supervision and Guidance of

Dr. A. Vithya Vijayalakshmi MCA., M.Phil., Ph.D.,

PG DEPARTMENT OF COMPUTER SCIENCE (SSC)

St. Mary's College (Autonomous), Thoothukudi– 628001

MAY 2022

CERTIFICATE

This is to certify that this project work entitled as **"GOLD LOAN PROCESSING SYSTEM APPLICATION"** is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to **Manonmaniam Sundaranar University, Tirunelveli**, in partial fulfillment for the award of the degree of Master of **Computer Science** for the work done during the year 2021-2022 by **Mathi. G (Reg.no. : 20SPCS12).**

Signature of the Guide

Signature of the Co-ordinator

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

Lucia Rose

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

14-05-2022

To

The Head of the Department

PG Department of Computer Science (SSC)

St. Mary's College (Autonomous)

Thoothukudi

Dear Sir/Madam,

Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. G. Mathi, Reg No: 20SPCS12** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Gold Loan Processing System App"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	**Name of the Faculty with Designation, Staff ID**	C.Nayanthra Mascarenhas, Assistant Professor of Computer Science(SSC), CPSS001
2	**Name of the Collaborating Faculty with Designation**	Mr.P.Johnson Durai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	**Name of the Collaborating Organisation**	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Internship
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Web Developer
6	**Financial Involvement (if any)**	No
7	**Proof Attached**	Yes

Signature of Faculty

Signature of the Collaborating Faculty

B.Serena Margaret
Signature of IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC2021 - 2022

14-05-2022

TO WHOMSOEVER IT MAY CONCERN
PITIN0019

This is to certify that **Ms. J. Jumana Takcina Banu,** M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR – POSTULATE

10-02-2022

<u>**TO WHOMSOEVER IT MAY CONCERN**</u>
PITIN0018

This is to certify that **Ms.M.LISANTHINI**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 18th January 2022 to 10th February 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR-POSTULATE

10-02-2022

TO WHOMSOEVER IT MAY CONCERN
PITIN0019

This is to certify that **Ms.G.MATHI**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 17th January 2022 to 10th February 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR-POSTULATE

POSTULATE

14-05-2022

<u>TO WHOMSOEVER IT MAY CONCERN</u>
PITIN0019

This is to certify that **Ms. J. Praveena**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

KM.Varothini
DIRECTOR - POSTULATE

POSTULATE

14-05-2022

<u>TO WHOMSOEVER IT MAY CONCERN</u>
PITIN0019

This is to certify that **Ms. P. Radha**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR - POSTULATE

POSTULATE

14-05-2022

<u>TO WHOMSOEVER IT MAY CONCERN</u>
PITIN0019

This is to certify that **Ms. G. Sahaya Naveetha**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

K.M.Vasthig.
DIRECTOR - POSTULATE

![POSTULATE logo]

14-05-2022

<u>**TO WHOMSOEVER IT MAY CONCERN**</u>
PITIN0019

This is to certify that **Ms. K. Sangeetha,** M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

K.M. Vinothige.
DIRECTOR - POSTULATE

POSTULATE

16-05-2022

TO WHOMSOEVER IT MAY CONCERN
PIT1N0033

This is to certify that **Ms.B.Santhanalakshmi**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for her future endeavors.

PROJECT DIRECTOR

POSTULATE

14-05-2022

This is to certify that **Ms. H. Sathya Bala**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 15th February 2022 to 5th March 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR - POSTULATE

POSTULATE

10-02-2022

This is to certify that **Ms.G.MATHI**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 17th January 2022 to 10th February 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR - POSTULATE

POSTULATE

10-02-2022

<u>TO WHOMSOEVER IT MAY CONCERN</u>
PITIN0020

This is to certify that **Ms.R.RAMYA**, M.Sc., Computer Science, Department of Computer Science, St. Mary's College (Autonomous), Thoothukudi, Tamil Nadu has successfully completed internship from 17th January 2022 to 10th February 2022 in POSTULATE INFO TECH. During the period she has assigned with Web Development project and found Diligent and Attentive.

We wish all the very best for future endeavors.

DIRECTOR - POSTULATE

Publication Period: January to December   **Academic Activities Period: June to July**

1	**Name of the Student with Register No.**	Praveena.J 20SPCS15
2	**Name of the Collaborating Faculty with Designation**	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	**Name of the Collaborating Organisation**	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Speed Determination of Vehicles using Image Level Features
6	**Financial Involvement (if any)**	No
7	**Proof Attached**	Yes

J. Praveena.
Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret
Signature of IQAC Coordinator

IQAC Co-ordinator St. Mary's College (Autonomous Thoothukudi

Lucie Rox
Principal

St. Mary's College (Autonomous)· Thoothukudi-628 001.

SPEED DETERMINATION
OF VEHICLES USING IMAGE LEVEL FEATURES

A project submitted to

ST.MARY'S COLLEGE (Autonomous), Thoothukudi

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

J. PRAVEENA

Reg.No:20SPCS15

Under the Supervision and Guidance of
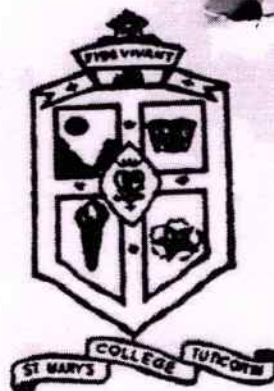
Dr. A. Vithya Vijayalakshmi MCA., M.Phil., Ph.D.,

PG DEPARTMENT OF COMPUTER SCIENCE(SSC)

St.Mary's College (Autonomous), Thoothukudi-628001

May 2022

CERTIFICATE

This is to certify that this project work entitled " **SPEED DETERMINATION OF VEHICLES USING IMAGE LEVEL FEATURES** " is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to **Manonmaniam Sundaranar University, Tirunelveli**, in partial fulfillment for the award of the degree of Master of Science in Computer Science for the work done during the year 2021-2022 by **J. PRAVEENA (Reg.No.20SPCS15).**

Signature of the Guide

Signature of the Co-ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

To

    The Head of the Department

    PG Department of Computer Science (SSC)

    St. Mary's College (Autonomous)

    Thoothukudi

Dear Sir/Madam,

    Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. J. Praveena, Reg No: 20SPCS15** studying **Master of Computer Science** Final year has been done the project work at our concern on **"SPEED DETERMINATION OF VEHICLES USING IMAGE LEVEL FEATURES"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	Radha.P 20SPCS16
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Online Exam Surveillance using Image Processing
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Radha.P
Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret
Signature of IQAC Coordinator

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC2021 - 2022

ONLINE EXAM SURVEILLANCE USING IMAGE PROCESSING

A project submitted to

ST. MARY'S COLLEGE (Autonomous), THOOTHUKUDI

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

P. RADHA

Reg.No.: 20SPCS16

Under the Supervision and Guidance of
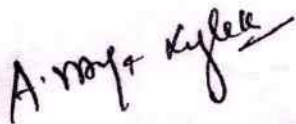
Dr. A. Vithya Vijayalakshmi MCA., M.Phil., Ph.D.,

PG DEPARTMENT OF COMPUTER SCIENCE (SSC)

St. Mary's College (Autonomous), Thoothukudi-628001
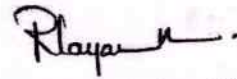
MAY 2022

CERTIFICATE

This is to certify that this project work entitled **"ONLINE EXAM SURVEILLANCE USING IMAGE PROCESSING"** is submitted to **St. Mary's College (Autonomous)**, Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfillment for the award of the degree of Master of Science in **Computer Science** for the work done during the year 2021-2022 by **P. RADHA (Reg. No.: 20SPCS16).**
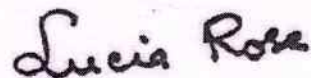
Signature of the Guide
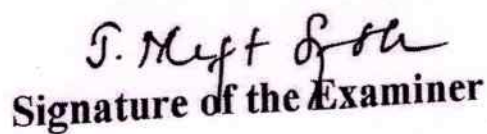
Signature of the Co-ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

To

    The Head of the Department

    PG Department of Computer Science (SSC)

    St. Mary's College (Autonomous)

    Thoothukudi

Dear Sir/Madam,

    Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. P. Radha, Reg no: 20SPCS16** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Online Exam Surveillance Using Image Processing"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

k.M.Viofliya

PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	SahayaNaveetha.G 20SPCS18
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Facial Expression Recognition using Fast Frequency Neural Network
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Sahaya Naveetha G
Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret
Signature of IQAC Coordinator

IQAC Co-ordinator St. Mary's College (Autonomous Thoothukudi

Lini Rox
Principal
St. Mary's College (Autonomous) Thoothukudi-628 001.

IQAC, SMC2021 - 2022

FACIAL EXPRESSION RECOGNITION USING FAST FREQUENCY NEURAL NETWORK

A project submitted to

ST. MARY'S COLLEGE (Autonomous), THOOTHUKUDI

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

G. SAHAYA NAVEETHA

Reg. No.: 20SPCS18

Under the Supervision and Guidance of
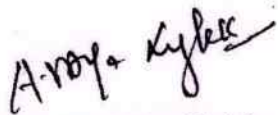
Dr. A. Vithya Vijayalakshmi MCA., M.Phil., Ph.D.,

PG DEPARTMENT OF COMPUTER SCIENCE (SSC)

St. Mary's College (Autonomous), Thoothukudi-628001
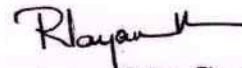
May 2022

CERTIFICATE

This is to certify that this project work entitled **"FACIAL EXPRESSION RECOGNITION USING FAST FREQUENCY NEURAL NETWORK"** is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to **Manonmaniam Sundaranar University, Tirunelveli,** in partial fulfillment for the award of the degree of Master of Science in **Computer Science** for the work done during the year 2021-2022 by **G. SAHAYA NAVEETHA (Reg. No.: 20SPCS18).**

Signature of the Guide
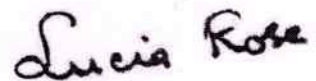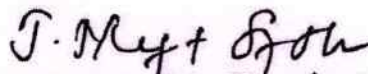
Signature of the Co-ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

To

The Head of the Department

PG Department of Computer Science (SSC)

St. Mary's College (Autonomous)

Thoothukudi

Dear Sir/Madam,

Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. G. Sahaya Naveetha, Reg no: 20SPCS18** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Facial Expression Recognition Using Fast Frequency Neural Network"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

ST MARY'S COLLEGE (AUTONOMOUS)

DEPARTMENT OF MICROBIOLOGY (SSC)

INTERNATIONAL CONFERENCE ON

MULTIDISCIPLINARY APPROACH ON CONSERVATION OF NATURE FOR YOUR FUTURE

AND

PRE-SIDDHA DAY CELEBRATION

MOU Activity
2021-22

Invitation

Photo

Certificate

WILLIAM RESEARCH CENTRE
NAGERCOIL - 1
Seethalakshmi Achi College for Women
Department of Botany, Pallathur.

St. Mary's College (Autonomous)
Department of Microbiology, Tuticorin.

CERTIFICATE

This is to certify that Uma Kanniga M Under Graduate, Department of Microbiology, St. Mary's College (Autonomous), Thoothukudi Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India, has participated and presented a Paper entitled " Impact of traditional siddha medicine during COVID -19 pandemic" on the occasion of 4ᵗʰ INTERNATIONAL CONFERENCE **"MULTIDISCIPLINARY APPROACH ON CONSERVATION OF NATURE FOR YOUR FUTURE" & PRE-SIDDHA DAY CELEBRATION"** (CNRTSPA-2021) held on 13 - 15 December jointly organized by William Research Centre Nagercoil, Kanyakumari District, Seethalakshmi Achi College for Women, Pallathur & St. Mary's College for Women Thoothukudi, Tamilnadu.

Dr. S. Christobar Williams
President
William Research Centre, Nagercoil

Dr. Joy Salvia Mary Albert
Head Department of Microbiology
St. Mary's College, Thoothukudi

Dr. R. Mary Josip
Director & Organizing Secretary
William Research Centre, Nagercoil

Report

The department of Microbiology (SSC), St. Mary's College (Autonomous), Thoothukudi and William Research Centre, Nagercoil conducted an International Conference on 'Multidisciplinary approach on conservation of nature for your future' and 'Pre – Siddha Day Celebration' on 13th to 15th December 2021 at William Research Centre. It provides a platform for traditional practitioners, policy makers and private sectors to interact and exchange the latest ideas and techniques in the field of engineering, Agriculture, Medicine, Biology and Nature for the exploration of largely untapped natural resources. The students, research scholar, faculty members from other department and colleges participated in the international conference. Totally 100 members participated and benefited in this program.

Head of the Department

Dr. Joys Selva Mary Albert.
Head
Deartment of **Microbiology**
St. Mary's College (Autonomous)
Thoothukudi

B. Serena Margaret
IQAC Coordinator
IQAC - Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Lucia Rose
Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	Sangeetha.K 20SPCS19
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Eye Detection Mobile Application
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Sangeetha . K
Signature of Student

Signature of the Collaborating Faculty

B Serena Margaret
Signature of IQAC
IQAC Co-ordinator
St. Mary's College (Autonomous
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

IQAC, SMC2021 - 2022

EYE DETECTION MOBILE APPLICATION

A project submitted to

ST. MARY'S COLLEGE (Autonomous), THOOTHUKUDI

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

K. SANGEETHA

Reg. No.: 20SPCS19

.Under the Supervision and Guidance of

Ms. A. Jenitta Jebamalar M.Sc(IT)., M.Sc(CS)., M.Phil., B.Ed.,
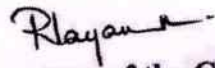

PG DEPARTMENT OF COMPUTER SCIENCE (SSC)

St. Mary's College (Autonomous), Thoothukudi-628001
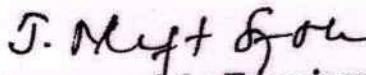
May 2022

CERTIFICATE

This is to certify that this project work entitled "EYE DETECTION MOBILE APPLICATION" is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfillment for the award of the degree of Master of Science in Computer Science for the work done during the year 2021-2022 by K. SANGEETHA (Reg. No.:20SPCS19)

Signature of the Guide

Signature of the Co-ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

To

The Head of the Department

PG Department of Computer Science (SSC)

St. Mary's College (Autonomous)

Thoothukudi

Dear Sir/Madam,

Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. K. Sangeetha, Reg no: 20SPCS19** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Eye Detection Mobile Application"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	Santhanalakshmi.B 20SPCS20
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,. 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Crude Oil Price Prediction
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

B.Santhanalakshmi
Signature of Student

Signature of the Collaborating Faculty

B.Serena Margaret
Signature of IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal

IQAC, SMC2021 - 2022

St. Mary's College (Autonomous)·
Thoothukudi-628 001.

CRUDE OIL PRICE PREDICTION

A project submitted to

ST.MARY'S COLLEGE (Autonomous), THOOTHUKUDI

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY

TIRUNELVELI

In partial fulfilment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

SANTHANALAKSHMI.B

Reg.No.:20SPCS20

Under the Supervision and Guidance of

Ms. C. NAYANTHRA MASCARENHAS M.Sc.,M.Phil.,SET
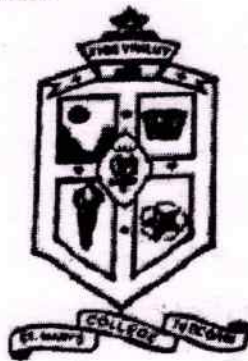
PG DEPARTMENT OF COMPUTER SCIENCE(SSC)
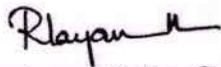
St.Mary's College (Autonomous),Thoothukudi-628001

May-2022
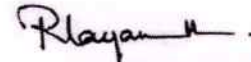
CERTIFICATE

This is to certify that this project work entitled **"CRUDE OIL PRICE PREDICTION"** is submitted to St. Mary's college (Autonomous) , Thoothukudi affiliated to **Manonmaniam Sundaranar University, Thirunelveli**, in partial fulfilment for the award of the degree of Master of Science in **Computer Science** for the work done during the year 2021-2022 by **B.SANTHANALAKSHMI (Reg.No.: 20SPCS20).**

Signature of the Guide
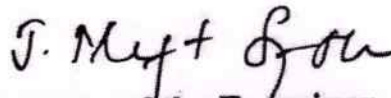
Signature of the Co-ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

To

    The Head of the Department

    PG Department of Computer Science (SSC)

    St. Mary's College (Autonomous)

    Thoothukudi

Dear Sir/Madam,

    Sub: Project Completion Certificate-Reg

    On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. R. Santhanalakshmi, Reg No: 20SPCS20** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Crude Oil Price Prediction"** during the period from February 2022 to May 2022.

    During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

                                        PROJECT DIRECTOR

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Student with Register No.	SathyaBala.H 20SPCS22
2	Name of the Collaborating Faculty with Designation	Mr.P.JohnsonDurai Raj Data Scientist, Postulate Info Tech Thoothukudi
3	Name of the Collaborating Organisation	Postulate Info Tech,, 212,New Colony Road, Pudugramam Thoothukudi-628003 Mob.No:04614000263
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Project
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Project Title:Crop Yield Prediction using Deep Reinforcement Learning
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

SathyaBala. H

Signature of Student

Signature of the Collaborating Faculty

B. Serena Margaret

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Lucia Rox
Principal
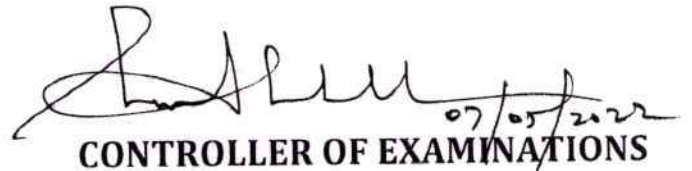St. Mary's College (Autonomous)·
Thoothukudi-628 001.

IQAC, SMC2021 - 2022

CROP YIELD PREDICTION USING DEEP REINFORCEMET LEARNING

A project submitted to

ST.MARY'S COLLEGE (Autonomous), Thoothukudi.

Affiliated to

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI

In partial fulfillment of the award of the degree of

MASTER OF SCIENCE IN COMPUTER SCIENCE

Submitted by

H. SATHYA BALA

Reg.No.: 20SPCS22

Under the Supervision and Guidance

of

Ms.A.Jenitta Jebamalar MSc(IT).,MSc(CS).,MPhil.,B.Ed.,

PG DEPARTMENT OF COMPUTER SCIENCE (SSC)

St. Mary's College (Autonomous), Thoothukudi-628001

May 2022

CERTIFICATE

This is to certify that this project work entitled as **"CROP YIELD PREDICTION USING DEEP REINFORCEMET LEARNING"** is submitted to St. Mary's College (Autonomous), Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli, in partial fulfillment for the award of the degree of Master of Science in Computer Science for the work done during the year 2021-2022 by **H. SATHYA BALA (Reg.No.: 20SPCS22).**

Signature of the Guide

Signature of the Co-Ordinator

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

Signature of the Principal
Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

Signature of the Examiner

POSTULATE

To

The Head of the Department

PG Department of Computer Science (SSC)

St. Mary's College (Autonomous)

Thoothukudi

Dear Sir/Madam,

Sub: Project Completion Certificate-Reg

On behalf of **POSTULATE**, We are pleasure to inform you that **Ms. H. Sathya Bala, Reg No: 20SPCS22** studying **Master of Computer Science** Final year has been done the project work at our concern on **"Crop Yield Prediction using Deep Reinforcement Learning"** during the period from February 2022 to May 2022.

During this period, we noticed her to be diligent, sincere and hardworking and she accomplished her task within stipulated deadline. We wish her for all future endeavors.

PROJECT DIRECTOR

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Faculty with Designation, Staff ID	Dr. S. Jeya Bharathi Assistant Professor, Dept. of Psychology, SMC PSYS001
2	Name of the Collaborating Faculty with Designation	Dr. S.S. Srinithi Asst. Prof, Dept. of Psychology Sadakathullah Appa College (Autonomous) Tirunelveli
3	Name of the Collaborating Organisation	Sadakathullah Appa College (Autonomous) Tirunelveli
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	BOS member (1.10.2021)
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Framing of syllabus
6	Financial Involvement (if any)	Yes
7	Proof Attached	Yes

Signature of Faculty

Signature of the Collaborating Faculty
HEAD & ASSISTANT PROFESSOR
DEPARTMENT OF PSYCHOLOGY
SADAKATHULLAH APPA COLLEGE
PALAYAMKOTTAI
Principal

B. Serena Margaret
Signature of IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

IQAC, SMC 2021 - 2022

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

Sadakathullah Appa College

Date: 29-09-2021

To

Dr. Jeya Bharathi,

Assistant Professor & Head,

Department of Psychology,

St. Mary's College ,

Thoothukudi.

Dear Madam,

Sub: Board of Studies Meeting – B.Sc. Psychology – intimation - reg.

Greetings from Sadakathullah Appa College !

We are pleased to inform you that you have been nominated as **Subject Expert** on the Board of Studies of **B.Sc. Psychology** for a period of three years from 16.09.2021 to 15.09.2024. It immensely pleases me to invite you on our campus for attending the Board of Studies Meeting to be held at 10.30 a.m. on 01.10.2021 to offer your pertinent suggestions to enrich the syllabus framed by the Department.

T.A. and D.A. will be paid as per University Norms.

Thanking you,

Yours sincerely,

(PRINCIPAL)

Publication Period: January to December   **Academic Activities Period: June to July**

1	**Name of the Faculty with Designation, Staff ID**	Dr. S. Jeya Bharathi Assistant Professor, Dept. of Psychology, SMC PSYS001
2	**Name of the Collaborating Faculty with Designation**	Dr. S.S. Srinithi Asst. Prof, Dept. of Psychology Sadakathullah Appa College (Autonomous) Tirunelveli
3	**Name of the Collaborating Organisation**	Sadakathullah Appa College (Autonomous) Tirunelveli
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Member of evaluation board (24.2.2022-28.2.2022)
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Evaluation of end semester answer scripts
6	**Financial Involvement (if any)**	Yes
7	**Proof Attached**	Yes

Signature of Faculty

Signature of the Collaborating Faculty

HEAD & ASSISTANT PROFESSOR
DEPARTMENT OF PSYCHOLOGY
SADAKATHULLAH APPA COLLEGE
PALAYAMKOTTAI
Principal

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

IQAC, SMC 2021 - 2022

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

07.05.2022

CERTIFICATE

This is to certify that **Dr. S. Jeya Bharathi**, Assistant Professor of Psychology, St. Mary's College (Autonomous), Thoothukudi -628001, Tamil Nadu has acted as an Additional Examiner for **UG Psychology Evaluation board** for **November 2021 Semester Examinations**, Sadakathullah Appa College, Tirunelveli-627011 from **24.02.2022 to 28.02.2022** in online mode. We thank you for your sincere services.

CONTROLLER OF EXAMINATIONS

CONTROLLER OF EXAMINATIONS
SADAKATHULLAH APPA COLLEGE
(AUTONOMOUS)
Rahmath Nagar, Tirunelveli - 627 011

St. Mary's College (Autonomous) – Thoothukudi
Internal Quality Assurance Cell (IQAC)
Collaborative Activities 2021 - 2022
Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	**Name of the Faculty with Designation, Staff ID**	Dr. S. Jeya Bharathi Assistant Professor, Dept. of Psychology, SMC PSYS001
2	**Name of the Collaborating Faculty with Designation**	Dr. S.S. Srinithi Asst. Prof, Dept. of Psychology Sadakathullah Appa College (Autonomous) Tirunelveli
3	**Name of the Collaborating Organisation**	Sadakathullah Appa College (Autonomous) Tirunelveli
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	BOS member (10.5.2022)
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Approving the syllabus of III & IV Semester
6	**Financial Involvement (if any)**	Yes
7	**Proof Attached**	Yes

Signature of Faculty

Signature of the Collaborating Faculty
HEAD & ASSISTANT PROFESSOR
DEPARTMENT OF PSYCHOLOGY
SADAKATHULLAH APPA COLLEGE
PALAYAMKOTTAI
Principal

Signature of IQAC Coordinator

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

IQAC, SMC 2021 - 2022

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.

Sadakathullah Appa College

(Autonomous)

(Re-Accredited with 'A' Grade By NAAC*ISO 9001 : 2008 Certified)

Date: 02-05-2022

To

Dr.S.Jeya Bharathi,
Assistant Professor and Head,
Department of Psychology,
St. Mary's College ,
Thoothukudi.

Dear Madam,

Sub: Board of Studies Meeting – B.Sc. Psychology –   intimation - reg.

Greetings from Sadakathullah Appa College !

As you know that you have been nominated as **Subject Expert - I** on the Board of Studies of **B.Sc. Psychology** for a period of three years.

A Board of Studies Meeting to approve the syllabi framed for third and fourth semesters is to be held ONLINE on **10.05.2022**. We request you to kindly attend the meeting and offer your pertinent suggestions to enrich and approve the syllabi.

D.A. will be paid as per the University Norms.

Thanking you,

Yours sincerely,

(PRINCIPAL)

St. Mary's College (Autonomous) – Thoothukudi

Internal Quality Assurance Cell (IQAC)

Collaborative Activities 2021 - 2022

Academic & Research

Publication Period: January to December   **Academic Activities Period: June to July**

1	**Name of the Faculty with Designation, Staff ID**	Dr. F. Mary Priya, Assistant Professor of English, ENGR017
2	**Name of the Collaborating Faculty with Designation**	Controller of Examination
3	**Name of the Collaborating Organisation**	Sadakathulla Appa College (Autonomous), Tirunelveli
4	**Nature of Collaboration** (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Question paper setting & External evaluation
5	**Nature / Details of Outcome** [Guest Lecture / DC member / Guide / Co-guide / Project Reports / Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Others
6	**Financial Involvement (if any)**	Yes
7	**Proof Attached**	Yes

Signature of Faculty   **Signature of the Collaborating Faculty**   **Signature of IQAC Coordinator**

IQAC Co-ordinator
St. Mary's College (Autonomous)
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001,

IQAC, SMC 2021 - 2022

28.09.2022

CERTIFICATE

This is to certify that **Dr. F.Mary Priya**, Assistant Professor, Department of English, St.Mary's College, Thoothukudi -628001, Tamil Nadu has acted as an Additional Examiner for **UG and PG English Evaluation board** for **November 2021 Semester Examinations**, Sadakathullah Appa College, Tirunelveli-627011 from **24.02.2022 to 28.02.2022** in online mode. We thank you for your sincere services.

CONTROLLER OF EXAMINATIONS

CONTR········ ········ ·······MINATIONS

SAD········· ········· ·····COLLEGE

Rahmath Naga······ ·······li - 627 011

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Faculty with Designation, Staff ID	**Dr. M. PARIPOORANASELVI** Assistant Professor of Zoology ZOOR0013
2	Name of the Collaborating Faculty with Designation	**Dr. M.I. DELIGHTA MANO JOYCE** Assistant Professor of Zoology
3	Name of the Collaborating Organisation	Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli-627 011
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Research
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports /Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Book Chapter Published Title of the Book Chapter: Climate change: Impact on environment Topic: Climate change: Risks and Rescue of marine organisms
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Signature of Faculty

M.I. Delighta

Signature of the Collaborating Faculty

B. Serena Margaret
Signature of IQAC Coordinator
IQAC Co-ordinator
St. Mary's College (Autonomou
Thoothukudi

Principal
St. Mary's College (Autonomous)
Thoothukudi - 628 001.

IQAC, SMC2020 - 2021

Climate Change

Impact on Environment

First Edition : 2021

CLIMATE CHANGE: RISKS AND RESCUE OF MARINE ORGANISMS

Dr.M. Paripooranaselvi

Assistant Professor, P.G. & Research Department of Zoology,
St. Mary's College (Autonomous), Thoothukudi.

Dr.M.I. Delighta Mano Joyce

Assistant Professor, PG Department of Zoology,
Sadakathullah Appa College (Autonomous), Tirunelveli.

Introduction

The fifth largest planet of the solar system – Earth, is the only planet known to have an atmosphere containing free oxygen and oceans of water on its surface and to maintain life. Naturally earth has green house effect. The green house effect is the trapping of energy from the sun by certain gases in the atmosphere leading to rise in earth's temperature. Carbon dioxide, nitrous oxide, methane, water vapour and chlorofluorocarbon absorb and reflect infra red waves radiated by earth and hence conserve heat as in a green house. All the living organisms need this green house effect for its survival. If not, the earth will be cooled and ice will cover the earth from pole to pole.

The most abundant green house gas is CO_2 which comes to the atmosphere due to anthropogenic and natural activities. CO_2 is removed by plants through photosynthesis and absorbed by ocean water. But human activities such as burning of fossil fuel, solid wastes, wood products etc increase CO_2 in the atmosphere. This release of CO_2 is at faster rate than

Publication Period: January to December   **Academic Activities Period: June to July**

1	Name of the Faculty with Designation, Staff ID	**Dr. M. PARIPOORANASELVI** Assistant Professor of Zoology ZOOR0013
2	Name of the Collaborating Faculty with Designation	**Dr. M.I. DELIGHTA MANO JOYCE** Assistant Professor of Zoology
3	Name of the Collaborating Organisation	Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli-627 011
4	Nature of Collaboration (Academic / Research / Faculty Exchange / BOS/ Examiner / Student Exchange / Project / Internship / On-the Job Training)	Research
5	Nature / Details of Outcome [Guest Lecture / DC member / Guide / Co-guide / Project Reports /Publications (Research Papers) / Sharing of Research Resources (Lab / Library / Industry) / Others]	Book Chapter Published Title of Book Chapter:Marine Nutraceuticals: Challenges and opportunities Topic: Tunicates as nutritious food
6	Financial Involvement (if any)	No
7	Proof Attached	Yes

Signature of Faculty

Signature of the Collaborating Faculty

Signature of IQAC Coordinator

IQAC Co-ordinator St. Mary's College (Autonomous Thoothukudi

Principal St. Mary's College (Autonomous) Thoothukudi - 628 001.

IQAC, SMC2020 - 2021

Marine Nutraceuticals; Challenges and Opportunities

Editor

Dr. G. Chelladurai

PG & Research Department of Zoology,

Kamaraj College, Thoothukudi-628005

Tamilnadu, India.

Email: gcd.zoology@gmail.com

Cell: 09629484026

Marine Nutraceuticals; Challenges and Opportunities

Editor

- *Dr. G. Chelladurai*

ISBN 978-93-5279-062-3

9 789352 790623

TUNICATES AS NUTRITIOUS FOOD

Dr. M.I. Delighta Mano Joyce[1] and Dr. M. Paripooranaselvi[2]
[1]Assistant Professor, PG Department of Zoology, Sadakathullah Appa College (Autonomous), Tirunelveli.
[2]Assistant Professor, P.G. & Research Department of Zoology, St. Mary's College (Autonomous), Thoothukudi.
Corresponding author: midelighta@gmail.com

Abstract:
Sea foods are currently in high demand and are considered as healthy and nutritional. Tunicates commonly known as sea squirts occupy an important link in the food chain and indirectly provide humans with a source of food. It contains bioactive compounds as their secondary metabolites and some of these may prove useful as drugs. Some tunicates are fouling organisms that grow on hull of ships and other harbor installations. Various other species are also known as sea pork as it has nutritive value in its content.

Key words: Tunicates, sea food, fouling organisms, sea squirts, sea pork.

INTRODUCTION

Oceans cover over 70% of the earth's surface and carry out about 50% of global primary production and support the greatest biodiversity on the planet. Oceans provide both living and nonliving resources. Living resources are an important source of seafood. More than 60% of the world's population living on the coastline depends on various creatures such as seaweeds, finfish, crustaceans, molluscs, echinoderms, tunicates, reptiles, birds and marine mammals etc. for their food. Ocean is the number one source of protein for more than a billion people and the importance of seafood in the human diet varies greatly around the world. In recent years, the popularity of seafood has been increased because it is seen as a health-promoting food source. Tunicates live exclusively on marine environments, unable to survive in low salinities. They are prochordates. Some ascidians are monascidians, simple and solitary forms. Some are found in groups, the social ascidians, in which individuals are separate, but connected by stolonic vessels.

The outer surface of an ascidian is covered by a thick tunic or test. Because of the presence of tunic, they are called as tunicates. The tunic is composed of a carbohydrate, and some amount of it is a cellulose-like compound called tunicin. The ascidians settle on all kinds of surfaces, are commonly called as sea squirts since they squirt out water when they are detatched from their substratum. About 3,000 species of tunicate exist in the world's oceans, living mostly in shallow water. Ascidians occupy a unique evolutionary position between vertebrate and invertebrate as they exhibit vertebrate like tadpole characteristics in larval form and in adult form as invertebrate filter feeders. Rapid evolution of tunicate genomes with their short lifespan and the two modes of reproduction are responsible for the diversity and the adaptability of ascidians, which reflect the structural novelty and the functional diversity of this particular species.

Sea food products are currently in high demand and they are considered healthy and nutritional. Though food products are prepared from a number of marine organisms like prawn, molluscs, fishes etc., ascidians are also farmed and fished in many parts of the world for food. Tunicates are consumed as food in a variety of preparations in different parts of the world and are considered as highly nutritious seafood when consumed just after harvest is favored for the best flavor. Various Ascidiacea species are consumed as food around the world. In Japan and Korea, the sea pineapple (*Halocynthia roretzi*) is the main species eaten. It is cultivated on dangling cords made of palm fronds. The tunic of the pyurid ascidian *Microcosmus hartmeyeri*

Date: 17 May, 2022

TO WHOMESEVER IT MAY CONCERN

This is to certify that **Ms.G.Akila** M.SC Department of Computer Science St. Mary's College (Autonomous), Thoothukudi, Tamilnadu has successfully completed internship from 15th Feburary 2022 to 7th March 2022 in **TEKSPEAR SOLUTIONS.** During the period of his internship programme with us she was found Punctual, hardworking and inquisitive.

We wish him every success in life.

TEKSPEAR SOLUTIONS
For Tekspear's solutions

(C.SARAVANAN) **H.R**

WORKED PROJECT

NAME	G. Akila
COLLEGE NAME	St. Mary's College (Autonomous)
DEPARTMENT	M. Sc Computer Science
INTERNSHIP DATE	15/02/2022 to 07/03/2022
INTERNSHIP ORGANISATION	Tekspear Soft

PROJECT: CHRONIC CARE MANAGEMENT

FRONT END: Visual Studio 2019

Visual Studio is a powerful developer tool that we can use to complete the entire development cycle in one place. It is a comprehensive integrated development environment (IDE) that we can use to write, edit, debug, and build code, and then deploy your app. Beyond code editing and debugging, Visual Studio includes compilers, code completion tools, source control, extensions, and many more features to enhance every stage of the software development process.

Visual Studio 2019 introduces exciting improvements and new features aimed at optimizing developer productivity and team collaboration. Whether we are using Visual Studio for the first time or have been using it for years, we will benefit from features that improve all aspects of the development lifecycle from smoother and more focused project creation to cloning from repository workflows, to driving the maintainability and quality of your code. Team and open source collaborative workflows are improved, as well.

One of the goals of the Visual Studio team was to make the upgrade to Visual Studio 2019 as seamless and simple as possible. So we will find that there are no breaking changes in the format of solution and projects files when we step up, and that our existing code should open as expected.

There's more good news. The extensibility APIs in Visual Studio 2019 remain relatively unchanged, which means that any extension you use in Visual Studio 2017 can be updated with minimal effort to support Visual Studio 2019. Many extensions have been updated already, ensuring that they're available

to you for the preview release. Updated extensions include Productivity Power Tools, Web Essentials, VsVim and many other popular extensions on the Visual Studio Marketplace today.

There are two other areas of particular interest to customers: performance and reliability. We've been shipping preview builds of new versions of Visual Studio for years, with updates more recently being released on a quarterly basis. These previews give you an early look at what's coming so you can work with the preview bits, and provide feedback to the Visual Studio product team. They also help you start thinking about how the new capabilities might impact you and your organization. Finally, these previews provide us with valuable feedback about issues in various user scenarios, as well as insight into how features might be tweaked to deliver the highest-quality product.

BACK END: Microsoft SQL Server Management Studio

- Microsoft SQL Server Management Studio (SSMS) is a powerful and comprehensive integrated development environment (IDE) designed for managing and administering Microsoft SQL Server. SQL Server is a relational database management system (RDBMS) developed by Microsoft, and SSMS serves as the primary tool for database administrators, developers, and analysts to interact with SQL Server databases..

- Microsoft SQL Server Management Studio is an indispensable tool for database professionals working with SQL Server databases. It offers a unified platform for database development, administration, and maintenance, making it easier to manage complex database environments efficiently. Whether you are a database administrator, developer, or analyst, SSMS plays a crucial role in ensuring the reliability, performance, and security of SQL Server databases.

OUTCOME

This project is developed to take care of the people who are above 65 and who have two or more lifetime problems. Chronic care management is beneficial for patients in terms of ongoing health and wellness support, increased access to appropriate medical resources, enhanced communication with members of their care team, reduction in emergency room visits and hospitalization or readmissions, and increased engagement in their own healthcare. Chronic care management includes any care provided by medical professionals to patients who have chronic diseases and conditions. A disease or condition is chronic when it lasts a year or more, requires ongoing medical attention or limits the activities of daily life. It includes physical conditions like diabetes or mental conditions, like depression. This project is developed in an online mode. The patient information is enrolled in the patient tab. In the CCM module the eligible patient names will be displayed. In the list of eligible patients, the patient's signature will be uploaded by the sign consent if they agree. If a patient was admitted to the hospital for any problem in between the monthly check up, that details will be entered in the Clinical Intake. After the sign is uploaded, the name of the patient will be displayed in the Summary Patient and also we can upload some other details about the patient. The monthly check up call was made by the provider and he will track the time and ask questions about the patient's problem. If the patient is normal, the provider comments about the health condition of the patient. If there is any problem, he will advise the patient to do some activities or call the patient to the clinic. This is followed every month and the bill will be generated to the patient based on call timing.

.

TEK SPEAR
SOLUTIONS MADE SIMPLE

111/1k/1, Dwarakamayi, Polpettai, Tuticorin-628002.

Date: 17 May, 2022

TO WHOMESEVER IT MAY CONCERN

This is to certify that **Ms.N.Iswarya Lakshmi** M.SC Department of Computer Science St. Mary's College (Autonomous), Thoothukudi, Tamilnadu has successfully completed internship from 15th Feburary 2022 to 7th March 2022 in **TEKSPEAR SOLUTIONS.** During the period of his internship programme with us she was found Punctual, hardworking and inquisitive.

We wish him every success in life.

TEKSPEAR SOLUTION$
For Tekspear's solutions

(C.SARAVANAN)   **H.R**

WORKED PROJECT

NAME	N.Iswarya Lakshmi
COLLEGE NAME	St.Mary's College (Autonomous)
DEPARTMENT	M. Sc Computer Science
INTERNSHIP DATE	15/02/2022 to 07 /03/2022
INTERNSHIP ORGANISATION	TekSpear Solutions

PROJECT: PATIENT CARE PLAN

FRONT END: VISUAL STUDIO 2019

Visual Studio is a comprehensive integrated development environment (IDE) that you can use to write, edit, debug, and build code, and then deploy your app. Beyond code editing and debugging, Visual Studio includes compilers, code completion tools, source control, extensions, and many more features to enhance every stage of the software development process. It is used to develop computer programs including websites, web apps, web services and mobile apps. It can produce both native code and managed code. It uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works as both a source-level debugger and as a machine-level debugger. It supports 36 different programming languages and allows the code editor and debugger to support nearly any programming language, provided a language-specific service exists. It is available for Windows as well as for macOS.

Visual Studio 2019 released by Microsoft. It contains many new and exciting features and IDE productivity enhancements to support Windows app development, cross-platform mobile development, Azure development, web and cloud development, and more. It provides a comprehensive, highly flexible set of application lifecycle management (ALM) tools

BACK END: MICROSOFT SQL SERVER MANAGEMENT STUDIO

- The SQL Server Management Studio is a web and client program that allows you to manage databases and data warehouses on your local computer or in the cloud.

- Microsoft SQL Server Management Studio (SSMS) is a windows software or a client tool used to connect and work with our SQL server from a graphical interface instead of using the command line.

- Microsoft SQL Server 2005 launched the management studio to work with SQL Server and Azure SQL databases

- SSMS tool includes both script editors and graphical tools which work with objects and features of the server.

- Its main functionality is to create databases and tables execute SQL queries for inserting. updating, and deleting data, creating and managing stored procedures, triggers, views, and cursors.

- A central feature of SSMS is the Object Explorer, which allows the user to browse, select, and act upon any of the objects within the server.

- SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database.

- SSMS provides tools to configure, monitor, and administer instances of SQL Server and databases. Use SSMS to deploy, monitor, and upgrade the data-tier components used by your applications and build queries and scripts.

CCM Summary Mar-22 CarePlan Needed

This Month　History

	All **34**	Duration = 0 **30**	Duration > 1 **3**	Duration >= 20 **1** **99490**	CarePlan Needed **5**

⬇ Download CCM Billing Report　🔄 Refresh

1

Page Size: 20 ▾

Drag a column header here to group by that column

#		Patient	Account	DOB	Care Manager	Primary Care Provider	Duration	Status	CCM Sign Date	Has Care Plan
♥	⤴	PRABHU, Catherine	115	2/11/1992	DEMO, CareMan...	WHITE, Walter	0	New	2/10/2022	False
♥	⤴	ROBINS... Kathleen	13	11/30/1...			0	New	2/3/2022	False

Practice
CCM
　CCM Summary
　Eligible Patients by Today's App
　Eligible Patients
　Statistics
AWV
RPM
Tools
Billing
Setup
Admin

? Version: 6.0.87.0
Build: 3/16/2022
Copyright One Healthcare Solution, Inc. 2022

3

OUTCOME

A patient care plan helps nurses and other care team members organize aspects of patient can according to a timeline. Patient care plan organizations can use the relevant variables and factors, identified from the study, to formulate their strategies and plans in the country. The organizations can prioritize the patient implicit and explicit requirements in Patient care plan. Patient care plan provide continuity of care, safety, quality care and compliance. A patient care plan promotes documentation and is used for reimbursement purposes such as medicare and Medicaid. Care Plans usually combine disease management for patients with common chronic conditions with case management for high-risk members, regardless of the underlying condition.

TEK SPEAR
SOLUTIONS MADE SIMPLE

111/1k/1, Dwarakamayi, Polpettai, Tuticorin-628002.

Date: 17 May, 2022

TO WHOMESEVER IT MAY CONCERN

This is to certify that **Ms.M.Karimunisha** M.SC Department of Computer Science St. Mary's College (Autonomous), Thoothukudi, Tamilnadu has successfully completed internship from 15th Feburary 2022 to 7th March 2022 in **TEKSPEAR SOLUTIONS.** During the period of his internship programme with us she was found Punctual, hardworking and inquisitive.

We wish him every success in life.

TEKSPEAR SOLUTIONS

For Tekspear's solutions

(C.SARAVANAN)   **H.R**

WORKED PROJECT

NAME	M. Karimunisha
COLLEGE NAME	St. Mary's College (Autonomous)
DEPARTMENT	M. Sc Computer Science
INTERNSHIP DATE	15/02/2022 to 07/03/2022
INTERNSHIP ORGANISATION	Tekspear Soft

PROJECT: ANNUAL WELLNESS VISIT

FRONT END: Visual Studio 2019

Visual Studio is a powerful developer tool that we can use to complete the entire development cycle in one place. It is a comprehensive integrated development environment (IDE) that we can use to write, edit, debug, and build code, and then deploy your app. Beyond code editing and debugging, Visual Studio includes compilers, code completion tools, source control, extensions, and many more features to enhance every stage of the software development process.

Visual Studio 2019 introduces exciting improvements and new features aimed at optimizing developer productivity and team collaboration. Whether we are using Visual Studio for the first time or have been using it for years, we will benefit from features that improve all aspects of the development lifecycle from smoother and more focused project creation to cloning from repository workflows, to driving the maintainability and quality of your code. Team and open source collaborative workflows are improved, as well.

One of the goals of the Visual Studio team was to make the upgrade to Visual Studio 2019 as seamless and simple as possible. So we will find that there are no breaking changes in the format of solution and projects files when we step up, and that our existing code should open as expected.

There's more good news. The extensibility APIs in Visual Studio 2019 remain relatively unchanged, which means that any extension you use in Visual Studio 2017 can be updated with minimal effort to support Visual Studio 2019. Many extensions have been updated already, ensuring that they're available

to you for the preview release. Updated extensions include Productivity Power Tools, Web Essentials, VsVim and many other popular extensions on the Visual Studio Marketplace today.

There are two other areas of particular interest to customers: performance and reliability. We've been shipping preview builds of new versions of Visual Studio for years, with updates more recently being released on a quarterly basis. These previews give you an early look at what's coming so you can work with the preview bits, and provide feedback to the Visual Studio product team. They also help you start thinking about how the new capabilities might impact you and your organization. Finally, these previews provide us with valuable feedback about issues in various user scenarios, as well as insight into how features might be tweaked to deliver the highest-quality product.

BACK END: Microsoft SQL Server Management Studio

- Microsoft SQL Server Management Studio (SSMS) is a powerful and comprehensive integrated development environment (IDE) designed for managing and administering Microsoft SQL Server. SQL Server is a relational database management system (RDBMS) developed by Microsoft, and SSMS serves as the primary tool for database administrators, developers, and analysts to interact with SQL Server databases..

- Microsoft SQL Server Management Studio is an indispensable tool for database professionals working with SQL Server databases. It offers a unified platform for database development, administration, and maintenance, making it easier to manage complex database environments efficiently. Whether you are a database administrator, developer, or analyst, SSMS plays a crucial role in ensuring the reliability, performance, and security of SQL Server databases.

OUTCOME

The Annual Wellness Visit (AWV) is a Remote Health Care Project designed in .net core application for patients to get yearly appointments with our primary care provider (PCP) to create or update a personalised prevention plan. This prevention plan may help prevent illness based on your current health and risk factors. This is a covered visit that allows our health care provider to dedicate time for a health risk assessment and prevention/screening strategies. During this visit, your health care provider will go over your health risks, prevention and screenings only giving your provider the time needed to make sure all of your immunizations, cancer screenings and personal screenings based on risk are discussed and scheduled. Here, physicians will conduct a health risk assessment and create a personalised health plan that promotes health and prevents disease. The visits give you the opportunity to ask questions and get in-depth information. AWV is not a comprehensive physical exam. The Annual Wellness Visit (AWV) Project allows us to create patients by adding their personal information, address information, and communication information. The problems of the patients were entered. The common problems include Diabetes, Hypertension, COPD and CHF. The additional information such as medical equipment and insurance details is also updated. After creating the patient, the list of patients will be displayed. AWV includes three major steps Clinical Intake, Questionnaires and the Provider Review. Each patient goes through the above three steps and at last the reports of the patient will be generated. By doing this, the provider may discover or treat a new or existing problem. AWV is not a comprehensive physical exam. This visit includes a review of your medical and social history related to your health and education and counselling about preventive services, including certain screenings, flu and pneumococcal shots, and referrals for other care, if needed. Height, weight, and blood pressure measurements.

TEK SPEAR
SOLUTIONS MADE SIMPLE

111/1k/1, Dwarakamayi, Polpettai, Tuticorin-628002.

Date: 17 May, 2022

TO WHOMESEVER IT MAY CONCERN

This is to certify that **Ms.K.Maheswari** M.SC Department of Computer Science St. Mary's College (Autonomous), Thoothukudi, Tamilnadu has successfully completed internship from 15th Feburary 2022 to 7th March 2022 in **TEKSPEAR SOLUTIONS.** During the period of his internship programme with us she was found Punctual, hardworking and inquisitive.

We wish him every success in life.

TEKSPEAR SOLUTIONS

For Tekspear's solutions

(C.SARAVANAN) **H.R**

WORKED   PROJECT

NAME	K.Maheswari
COLLEGE NAME	St. Mary's College (Autonomous)
DEPARTMENT	M. Sc Computer Science
INTERNSHIP DATE	15/02/2022 to 07/03/2022
INTERNSHIP ORGANISATION	Tekspear Soft

PROJECT: REMOTE PATIENT MONITORING

FRONT END: Visual Studio 2019

Visual Studio is a powerful developer tool that we can use to complete the entire development cycle in one place. It is a comprehensive integrated development environment (IDE) that we can use to write, edit, debug, and build code, and then deploy your app. Beyond code editing and debugging, Visual Studio includes compilers, code completion tools, source control, extensions, and many more features to enhance every stage of the software development process.

Visual Studio 2019 introduces exciting improvements and new features aimed at optimizing developer productivity and team collaboration. Whether we are using Visual Studio for the first time or have been using it for years, we will benefit from features that improve all aspects of the development lifecycle from smoother and more focused project creation to cloning from repository workflows, to driving the maintainability and quality of your code. Team and open source collaborative workflows are improved, as well.

One of the goals of the Visual Studio team was to make the upgrade to Visual Studio 2019 as seamless and simple as possible. So we will find that there are no breaking changes in the format of solution and projects files when we step up, and that our existing code should open as expected.

There's more good news. The extensibility APIs in Visual Studio 2019 remain relatively unchanged, which means that any extension you use in Visual Studio 2017 can be updated with minimal effort to support Visual Studio 2019. Many extensions have been updated already, ensuring that they're available
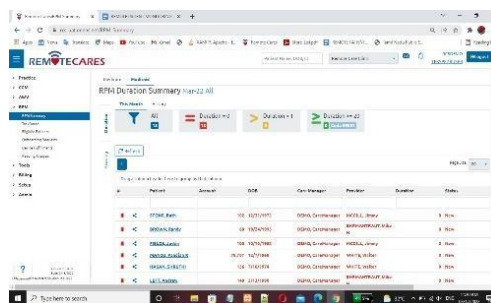
to you for the preview release. Updated extensions include Productivity Power Tools, Web Essentials, VsVim and many other popular extensions on the Visual Studio Marketplace today.

There are two other areas of particular interest to customers: performance and reliability. We've been shipping preview builds of new versions of Visual Studio for years, with updates more recently being released on a quarterly basis. These previews give you an early look at what's coming so you can work with the preview bits, and provide feedback to the Visual Studio product team. They also help you start thinking about how the new capabilities might impact you and your organization. Finally, these previews provide us with valuable feedback about issues in various user scenarios, as well as insight into how features might be tweaked to deliver the highest-quality product.

BACK END: Microsoft SQL Server Management Studio

- Microsoft SQL Server Management Studio (SSMS) is a powerful and comprehensive integrated development environment (IDE) designed for managing and administering Microsoft SQL Server. SQL Server is a relational database management system (RDBMS) developed by Microsoft, and SSMS serves as the primary tool for database administrators, developers, and analysts to interact with SQL Server databases..

- Microsoft SQL Server Management Studio is an indispensable tool for database professionals working with SQL Server databases. It offers a unified platform for database development, administration, and maintenance, making it easier to manage complex database environments efficiently. Whether you are a database administrator, developer, or analyst, SSMS plays a crucial role in ensuring the reliability, performance, and security of SQL Server databases.

OUTCOME

Remote Patient Monitoring (RPM) is a module in Remote Care Project which enables monitoring of patients outside of conventional call settings such as home or remote area which may increase access to care and decrease the healthcare delivery cost. The main goal of the RPMis used to reach patients in rural areas and connect patients to specialists and it also serves as a great way to reduce appointment breaches. 'Remote Patient Monitoring' consists of menus such as RPM summary, Taskboard, Onboarding request and reading analysis. The list of patients created will be displayed in RPM summary. The Insurance for the patient will also be created. Onboarding Request menu consists of details of the patients and the care manager allots/assign the device based on the problems of the patients. This process will undergo DON review, Provider review and if the above factors are valid, the device gets processed and at last it stores in Inprogress. After the device has been assigned to the patient, the readings and medication details will be displayed at RCS IOT application. The Taskboard man show and displays the details such that which device is assign for patients and also displays the medication details of the patient. Reading analysis menu displays the reading of the patient for a particular period of time such as week/month etc. Thus, the RPM provides improved quality care for patients who are at rural areas.

TEK SPEAR
SOLUTIONS MADE SIMPLE

111/1k/1, Dwarakamayi, Polpettai, Tuticorin-628002.

Date: 17 May, 2022

TO WHOMESEVER IT MAY CONCERN

This is to certify that **Ms.P.Nancy** M.SC Department of Computer Science St. Mary's College (Autonomous), Thoothukudi, Tamilnadu has successfully completed internship from 15th Feburary 2022 to 7th March 2022 in **TEKSPEAR SOLUTIONS.** During the period of his internship programme with us she was found Punctual, hardworking and inquisitive.

We wish him every success in life.

TEKSPEAR SOLUTIONS

For Tekspear's solutions

(C.SARAVANAN)   **H.R**

WORKED PROJECT

NAME	P.Nancy
COLLEGE NAME	St.Mary's College (Autonomous)
DEPARTMENT	M. Sc Computer Science
INTERNSHIP DATE	15/02/2022 to 07 /03/2022
INTERNSHIP ORGANISATION	TekSpear Solutions

PROJECT: INTERNET OF THINGS HUB

FRONT END: VISUAL STUDIO 2019
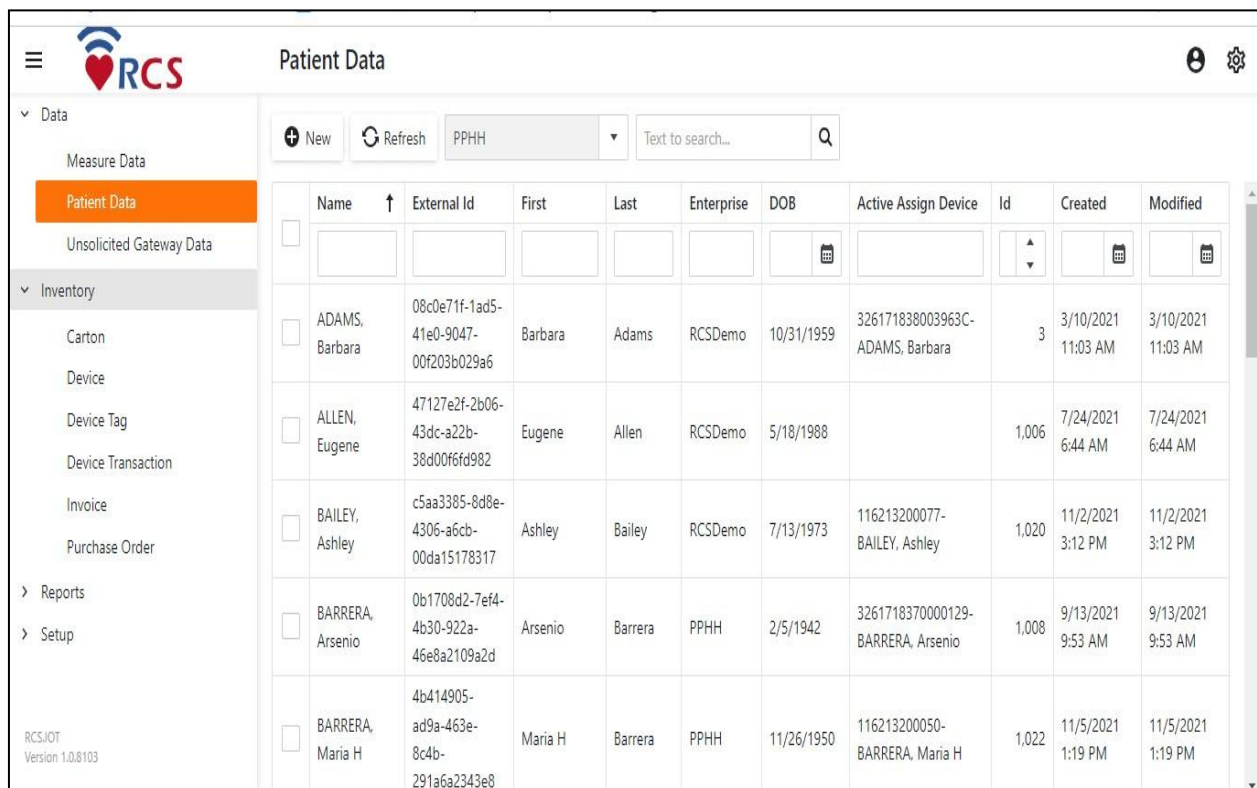
Visual Studio is a powerful developer tool that you can use to complete the entire development cycle in one place. It is a comprehensive integrated development environment (IDE) that you can use to write, edit, debug, and build code, and then deploy your app. It is used to develop computer programs including websites, web apps, web services and mobile apps. It uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code. It includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works as both a source-level debugger and as a machine-level debugger. It supports 36 different programming languages and allows the code editor and debugger to support nearly any programming language, provided a language-specific service exists.

Visual Studio 2019 provides a comprehensive, highly flexible set of application lifecycle management (ALM) tools. It contains many new and exciting features and IDE productivity enhancements to support Windows app development, cross-platform mobile development, Azure development, web and cloud development, and more.

BACK END: MICROSOFT SQL SERVER MANAGEMENT STUDIO

❖ Microsoft SQL Server Management Studio (SSMS) is a software application developed by Microsoft that is used for configuring, managing, and administering all components within Microsoft SQL Server.

❖ SSMS tool includes both script editors and graphical tools which work with objects and features of the server.

❖ A central feature of SSMS is the Object Explorer, which allows the user to browse, select, and act upon any of the objects within the server.

❖ SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database.

❖ SSMS provides tools to configure, monitor, and administer instances of SQL Server and databases. Use SSMS to deploy, monitor, and upgrade the data-tier components used by your applications and build queries and scripts.

❖ It simplifies SQL Server and related instances maintenance and administration so you can focus on your applications.

❖ SSMS allows administrators to accomplish the tasks: Connect to SQL Server databases, data, and instances.

OUTCOME

  "INTERNET OF THINGS HUB" is a managed service hosted in the cloud that acts as a central message hub for communication between an IoT application and its attached devices. It is a centralized hub that allows us to collect data and send instructions to our IoT devices from a single hub. The records are kept in an efficient manner since they are all saved in a database from which data can be easily retrieved. Editing is also straightforward. We can connect millions of devices. IoT Hub is a fully managed cloud service that enables reliable and secure bidirectional communications between millions of IoT devices. User friendly screens are provided. IoT Hub supports several messaging patterns. It also provides a cloud-hosted solution back end to connect virtually any device. This application works properly and meets all the requirements. Thus, it has become essential to improve the efficiency of your business while seeking innovation.