

# 1. Year of Establishment of Research Centre (Approved by Anna University) – 2015



Dr. R. JAYAVEL  
DIRECTOR

CENTRE FOR RESEARCH  
ANNA UNIVERSITY  
CHENNAI - 600 025



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Lr.No. 2601/IR/CSE/AR1

Date 10 06 2015

To  
The Principal  
Adhiyamaan College of Engineering  
Dr M.G.R. Nagar, Hosur  
Krishnagiri - 635 109

Sir/Madam,

Sub: Anna University - Research centre recognition - Department of  
Computer Science and Engineering - Orders - Issued.

I am by direction to inform that the Department of Computer Science and Engineering of your Institution has been recognized as a research centre with effect from 09.06.2015. The faculty members of this department can interact with Anna University for collaborative research for the purpose of pursuing Ph.D. / M.S. (By Research) programmes.

The recognized supervisors working in the above department may be permitted to guide the candidates to carryout Ph.D./M.S.(By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph.D. Degree in the broad area of research.

In all future correspondence quote "4260106" for reference.

The next renewal application in the prescribed format available in our website: cfr.annauniv.edu along with the number of papers published in SCI journals during the recognized period shall be made during **June 2018** (as per Common Renewal Session) with a renewal fee on fulfilling the norms.

Yours faithfully,

R. Jayavel  
DIRECTOR



Dr. C.UMARANI  
DIRECTOR

CENTRE FOR RESEARCH  
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Lr.No. 2601/RDR/Renewal/CSE/AR2

To  
The Principal  
Adhiyamaan College of Engineering,  
Hosur,  
Krishnagiri 635109

Sir/Madam,

*Copy to  
HOD - CSE  
D. R. R. D  
16/5*



Sub : Anna University - Research Department Recognition - **Department of Computer Science and Engineering - Renewal** - Orders - Issued.  
Ref : Your Application No.: **16IR2784**

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I am by direction to inform that the recognition of the **Department of Computer Science and Engineering** of your Institution has been renewed up to **June 2027** as per "Common Renewal Session" to do collaborative research for the purpose of pursuing Ph.D./M.S.(By Research) programme.

The recognized supervisors working in the above department may be permitted to guide candidates to carry out Ph.D./M.S.(By Research) programme relevant to their field of specialization. Please refer to Ph.D. and M.S.(By Research) Regulations for additional information.

The above recognition shall be renewed once in **three years** in compliance with the required norms for Research Department as applicable.

**In all future correspondence quote "4260106" for reference.**

The next renewal application (available in [cfr.annauniv.edu](http://cfr.annauniv.edu)) on fulfilling norms as applicable at the time of renewal along with the renewal fee shall be sent to this office. **Renewal can be done three months prior to last date.**

*Signature*  
14/5/24

DIRECTOR

*Signature*  
14/5/24

## 2. Recognized supervisor

Name of the Supervisor	Designation	Specialization	Supervisor ID	Contact Details
Dr. G Fathima	Professor & Head	Data Mining Techniques Mobile Adhoc Networks Cryptography	2440075	Mail id : fathima.cse@adhiyamaan.in Mobile : 9487819132
Dr. M Lilly Florence	Professor	Data Mining Machine Learning Artificial Intelligence	11031390 / 3140003	Mail id : drlilly2011@gmail.com Mobile : 9487819149

## 3. Scholars Pursuing Research

S.No.	Name of the Supervisor	Name of the Scholar	Scholar Register Number	Year of Registration	Title	Status
1	Dr. M. Lilly Florence	Ms.A.Vanathi	25244691426	Jan - 2025	Innovative Approaches to Cancer diagnostics: Integrating AI and ML Techniques for Enhanced Prediction and Screening	Pursuing
2	Dr. M. Lilly Florence	Ms.S.Gayathri	25239691161	Jan - 2025	An Enhanced Approach for Online Voting System with Integration of Biometric Authentication and Blockchain Technology	Pursuing
3	Dr. M. Lilly Florence	Ms.K.Maragatham	25239691202	Jan - 2025	Spectrum Utilization 1G To 4G in 5G Communication Using Software Defined Network	Pursuing
4	Dr. M. Lilly Florence	Ms.J.K.Jayakumari	24244697358	July - 2024	Transfer Learning in Image Synthesis Using Deep Learning	Pursuing
5	Dr. G. Fathima	Ms.M.Kasthuri	24234697364	July - 2024	Enhancing Privacy Preservation Through Consensus Algorithms	Pursuing
6	Dr. G. Fathima	Ms. I. Sakthidevi	24249691111	Jan - 2024	Enhancing Privacy and Trust in Healthcare Data Sharing using Adaptive Cloud Data Security Architecture	Pursuing
7	Dr. G. Fathima	Mr. G. Ramsankar	24144691166	Jan - 2024	Enhancing Transparency and Accountability in Smart Waste Management Systems	Pursuing
8	Dr. G. Fathima	Ms. G. Gayathri	24234691460	Jan - 2024	Recent Advancement in Augmented Reality for AAI Applications	Pursuing

9	Dr. G. Fathima	Ms.V.Sundarajeyal akshmi	23243697239	July - 2023	AIOT Based Combined Model Analysis And Prediction of Air Quality	Pursuing
10	Dr. G. Fathima	Ms. D.M. Vijaya Lakshmi	23234697148	July - 2023	An Efficient Approach in Hybrid Based CNN Model for Tumour Identification in Medical Image Processing	Pursuing
11	Dr. M. Lilly Florence	Mr.M.Kaviyarasu	23139697259	July - 2023	Detection of Sickel Cell Anaemia using Conventional Neural Network(CNN)	Pursuing
12	Dr. M. Lilly Florence	Ms. Mamath Poreddy	23254697433	July - 2023	Internet of Things Based System for Maintaining Safe Medical Records by the Block chain Technology	Pursuing
13	Dr. M. Lilly Florence	Mr. P. Ashok Kumar	23194691353	Jan - 2023	An Improved Security and Efficient Data Transmission in IOT System	Pursuing
14	Dr. G. Fathima	Ms. V. Kalai Vani	22234697169	July - 2022	Predictive Analysis and Evaluation of Stress Level using Machine Learning Techniques	Pursuing
15	Dr. G. Fathima	Ms. A. Pritha	22257697114	July - 2022	Time Management in Controlling Traffic in Metropolitan Cities According to Weather by Detecting by Wide Range of Edges using Canny Edge Detector Algorithm	Pursuing
16	Dr. M. Lilly Florence	Mr. N. Sakthivel	21147691140	Jan - 2021	Smart Tutorial System using Brain Waves System with Emotional Intelligence	Pursuing

#### 4. Patent Details

S.No	Name of Inventors	Title of Patent	File Number &Date	Patent Country	Status
1	Ms.V.Meena	Secure Multi-Tenant Cloud Storage using Decentralized Block chain Frameworks	202541009063 & 14/02/2025	India	Published
2	Ms.V.Saranya	YOLO V8-Driven Integration of Advanced Detection Technologies for Enhanced Terrain Safety in Autonomous in Navigation Systems	202441039806 & 31/05/2024	India	Published
3	Ms.V.Meena	Multimodal AI-based Sentiment Analysis	202441087034 & 22/11/2024	India	Published
4	Dr.G.Fathima	Water Management Device and System Thereof	20164103302 & 15/03/2024	India	Granted
5	Dr.B.Gopinathan	Electric Vehicle Swapping Battery Charging Station Using Artificial Intelligence	202321088690 & 19/01/2024	India	Published
6	Ms.D.M.Vijaya Lakshmi	Audio Alert Broadcasting Device for Women's safety	394637-001 & 21/02/2024	India	Published
7	Dr.M.Lilly Florence	Secure and Block chain Technology for Trustworthy Decentralized Application	202341069005 & 15/12/2023	India	Published
8	Dr.B.Gopinathan	IoT-Integrated Adaptive Agriculture System with Deep Learning Analysis	202341069005 & 20/10/2023	India	Published
9	Dr.B.Gopinathan & Ms.D.M.Vijaya Lakshmi	Robot Based on Chat bot Program for Real Time Conversion With User for Collecting Information	391771-001 & 23/11/2023	India	Published

10	Ms. V. Kalai Vani	Health Monitoring Device for Dairy Cows Using Internet of Things	202341027045 & 05/05/2023	India	Published
11	Dr. G. Fathima	Automatic Recognition of Eye's State using Deep Learning Approach	202241057064 & 13/05/2022	India	Published
12	Ms. V. Kalai Vani	An Intelligent VR Headset for Reducing Stress of Bedridden Patient	202241022988 & 13/05/2022	India	Published
13	Dr. G. Fathima	Sensor Based Intelligent Brain Computer Interface System For Assisting Hand Paralyzed Patients to Perform Typing by Brain	202141036605 & 12/08/2021	India	Published
14	Dr. M. Lilly Florence	User Usage Based Encryption System and Method Thereof	202041053162 & 11/12/2020	India	Published
15	Dr. G. Fathima	Water Management Device and System Thereof	2016410332 & 27/09/2016	India	Published

#### 5. Activities carried on /planned through research Centre

1. Planned to conduct workshop for Research Scholars on 23.04.2025 & 24.04.2025.
2. Organized a International webinar on **Deep Learning for Medical Image Analysis** on 26<sup>th</sup> October 2022.
3. Organized a Webinar **Rethinking IPR – From Research to Revenue** on 17<sup>th</sup> March 2021.



## 6. MoU Signed

The department is having various MOUs with industries to improve the career opportunities of our students.

S.No	Name of the Company	Goal Of MoU	Academic Year
1	Magic Bus India Foundation, Bangalore	Skill Development	2025 - 2026
2	Nasscom/IT-ITes SECTOR SKILLS COUNCIL	Skill Development Training	2024 - 2027
3	EXCELR EDTECH	SDP & FDP	2024 - 2026
4	ZEEKERS TECHNOLOGIES SOLUTION	Economical IOT & AI based solutions	2024 - 2027
5	MAKE LABS RESEARCH & DEVELOPMENT CENTER	Workshop / Seminar / Internship	2023 - 2026
6	INSPIRE SOFTTECH SOLUTIONS	Technical Training / Internship	2022 - 2027
7	VK ACADEMY IT SOLUTIONS	Seminar/ Training	2022 - 2025
8	INFOSYS SPRING BOARD	Skill Development	2022 - 2028

## 7. Benchmark of the Research Centre

The Department of CSE is a recognized Research Centre by Anna University, Chennai. The Department aims to create and support a research culture for developing and promoting scientific temper and research aptitudes among staffs and students. It helps to realize the vision and missions of the Institution for contributing to national development by establishing an institutional fund and plan for facilitating their participation in research and related activities by providing the required resources and appropriate facilities.

It also aims at ensuring that the research activities of the Institution conform to all applicable rules and regulation as well as to the established standards and norms relating to safe and ethical conduct of research.

### Objectives of the Research Policy

- Strengthening the institutional capacity for strategic, technical and operational planning, budgeting and control of all research activities of the Institution
- Creating and administer a research fund for supporting and facilitating research initiatives and projects of faculty members and students
- Developing rules, procedures and guidelines for granting research support, instituting awards, and supporting all other related activities.

- Developing rules, procedures and guidelines for granting study leave, sabbatical leave, duty leave, reduction in workload, etc. for faculty members undertaking research activities
- Preparing and updating the research agenda cut lining the preferred focus areas and priorities of research activities to be supported
- Guide faculty members in the effective integration research projects with the regular curriculum implementation and curriculum enrichment activities Identifying and informing researchers about the appropriate research opportunities announced by different academic, research, industry or government organizations
- Promoting interdisciplinary research and establishing modalities for preparing and undertaking joint research projects covering more than one knowledge domain as well as policies for involving external agencies/experts in such projects
- Enabling framework for researchers to obtain sponsorships for research projects and which makes the participating researchers responsible for the successful implementation of the project
- Developing and promoting linkages with the Research Council of the University of Delhi and enable all the researchers of the University to benefit from the activities and programs of the council
- Identifying and establishing linkages including MOU's for long term relationships with national and international research organizations for widening the scope of research opportunities and funding options available to the teachers and students.
- Encouraging and facilitating the publication of the research work/projects in reputed academic journals
- Encouraging and facilitating the presentation/communication of the research work/projects as well as their findings and recommendations through academic events such as workshops/seminars/guest lectures or the media
- Compiling data on all the research work/projects undertaken by the teachers and students in to a database for easy monitoring and analysis of the progress being made by them from year to year
- Adopting research code, which informs all researchers about the ethical and legal norms and principles to be followed in the conduct of research

### **Research Policy Implementation Mechanism**

The specific roles and functions of the research cell will be as follows

- a. Facilitate the faculty in undertaking research and will work with the Institution management to set up a research fund for providing seed money
- b. Provide research facilities in terms of laboratory equipment, research journals and research incentives etc. required by the faculty.
- c. Encourage and promote a research culture (eg. teaching work load remission, opportunities for attending conferences etc.)
- d. Encourage the faculty to undertake research by collaborating with other research organizations/ industry.
- e. Create suitable procedures for giving due recognition for guiding research.



- f. Establishment of specific research units/ centers by funding agencies
- g. Organize workshops/ training programs/ sensitization programs are conducted by the institution to promote a research culture on campus.
- h. Prepare budgets for supporting students' research projects.
- i. Approach National and international organizations such as UGC, CSIR, DSTSERB, DST, DBT, NATO, DRDO and BARC to fund major and minor research projects undertaken by the faculty / students
- j. Make efforts to improve the availability of research infrastructure requirements to facilitate research.
- k. Develop and implement an official Code of Ethics to check malpractices and plagiarism in research.
- l. Facilitate Interdepartmental / interdisciplinary research projects.
- m. Create incentives for the faculty who receive state, national and international recognition for research contributions as well as research awards and recognition from reputed professional bodies and agencies.
- n. Encourage and promote the publication of research articles by the faculty in reputed/ refereed journals.
- o. Create and maintain a database of research work and research projects undertaken by the faculty and students as well as collect data by metrics such as Citation Index, Impact Factor, h-index, etc.
- p. Publicize the research expertise and consultancy capabilities available in the Institution.
- q. Facilitate the provision consultancy services to industries / Government / Non- Government organizations / community/ public.
- r. Prepare Rules & Guidelines for Grant of Research related leave and other remissions
- s. Prepare Guidelines for design and evaluation of curriculum-oriented research projects
- t. Research publication leading to Patent/Patenting Research activities.