# *Profile*

**Name**                                  : M. Baby Nirmala

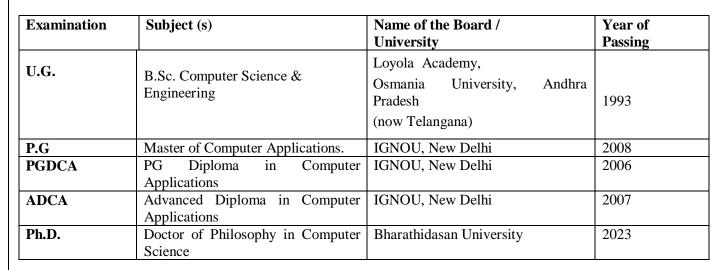**Gender**                               : Female

**Department**                      : Computer Science

**Occupation**                       : Head, Assistant Professor.

**Educational Qualification**   : Ph.D.in Computer Science

## 1.  Academic Qualifications

| Examination | Subject (s) | Name of the Board / University | Year of Passing |
|---|---|---|---|
| **U.G.** | B.Sc. Computer Science & Engineering | Loyola Academy, Osmania University, Andhra Pradesh (now Telangana) | 1993 |
| **P.G** | Master of Computer Applications. | IGNOU, New Delhi | 2008 |
| **PGDCA** | PG Diploma in Computer Applications | IGNOU, New Delhi | 2006 |
| **ADCA** | Advanced Diploma in Computer Applications | IGNOU, New Delhi | 2007 |
| **Ph.D.** | Doctor of Philosophy in Computer Science | Bharathidasan University | 2023 |

**Technical qualification:**

| Type of Qualifications | Title of the Course | Duration | Subject / Main | Name of the Organizations |
|---|---|---|---|---|
| **PGACT** | P.G. Diploma in Advanced Computer Troubleshooting | 6 months | Computer Hardware maintenance and Chip level Diagnosing | Microcode Consultants, Chennai, India |
| **Certificate Course** | Big data Full stack development | 6 months | Data Engineering | Zeyobron Analytics, Chennai, India |

## 2 Research Degree (s)

| Degrees | Thesis Title | Date and year of award | University |
|---|---|---|---|
| **Ph.D.** | Novel Graph Analytic Techniques for Large Scale Data Retrieval in Social Networks towards Enhancement of Reachability and Reduction of Search Time | 27-April-2023 | Bharathidasan University |

## 4.  Position held in other Colleges / Institutions / Industries worked:

| Designation | Department | Nature of job | Colleges/ Institutions / Industries worked |
|---|---|---|---|
| Program Coordinator for Hardware Courses | Computer Hardware & Maintenance | Design course curriculum, materials, Teaching, Promotion of courses. Training Designing H/w Boards | JKK Computer Center. (Sister Concern of Ponsiva Electronics Ltd.) |

| | | and Interfaces Assembling, Servicing and maintenance of PC's and Peripherals. | |
|---|---|---|---|
| Software Trainer & S/W Developer | Software Training & Development | Design course curriculum, materials, Teaching, Training Various corporate employees .Project Guidance and S/W Development | SS Computer Center. |
| Teacher | Science | Teaching | Little Flower Higher Secondary School, Kattur, Trichy |

**Aided** ☐          **Management** √

**Teaching Experience: 22.5  Years (1.5 +21years)**          **Total:   30 Years**

Teaching Experience at Holy Cross College:21+1.5 Years

Teaching Experience outside Holy Cross College: 7 Years

**Total Teaching Experience:**     29.5 Years


**Fields of Specification under the Subject / Discipline:**

- **Data Engineering**
- **Big data Analytics,**
- **Graph Analytics,**
- Big data full stack development,
- **Semantic Web,**
- Data Science
- Cloud Computing

**Subjects specialized in Teaching: (UG, PG)**

- **Big Data Full stack Development,**
- **Big data analytics**,
- Software Engineering,
- Advanced Database Systems,
- Programming Languages( C, SQL, Pl/SQL Java, J2EE, Python, R, Spark  and Scala),
- Web Services,
- Cloud Computing
- Data Science
- Data Analysis through R and Python.

**Positions Held** (VP / Dean/ HOD / Director/ Overall Coordinator etc.)

| S. No. | Name of the Position | Period |
|---|---|---|
| **1.** | Coordinator      for      ComputerScience (Shift ) | 2009-2011, 2021 |
| **2.** | Department of Value Education Core member-Bible Coordinator | 2010 – Till date |
| **3.** | Parent - Teachers          Association ( Shift II) | 2018-2020 |
| **4** | **ICTACT Coordinator** – Holy Cross College | 2023– Till date |

**Orientation / Refresher / Other Courses attended * :**

| Name of the Course | Academic Staff College, University, Organization | Duration in Days | From – To (Mention Date here) |
|---|---|---|---|
| Advanced Leadership Training – Area/Weekend Training Proramme | Bishop Heber College, Trichy-17 (Organized by **Haggai Institute India**) | 3 days | 3 Sep 2010 – 5 Sep  2010 |
| **Advanced Leadership Training - International** | **Haggai Institute, Maui, Hawaii, USA** | **30 days** | **7  Apr 2015 – 4 May 2015** |
| National workshop on Leaders for Tomorrow | **AIACHE**, New Delhi | 3 days | 19 Oct 2017 – 21 Oct 2017 |
| Chaplaincy Training  Program | Lady Doak College, Madurai, | 5days | 25 Sep 2018 – |

| | | | |
|---|---|---|---|
| - Phase I | Tamil Nadu (Organized **by United Board of Higher Education**, Asia) | | 29 Sep 2018 |
| Chaplaincy Training Program - Phase II & III | Lady Doak College, Madurai, Tamil Nadu (Organized by **United Board of Higher Education**, Asia) | 4 days | 11 Mar 2020 - 14 Mar 2020 |
| J2EE and Best Practices in Application Development State Level skill based Training Program | Bharathidasan University, Trichy, **ICT Academy& Cognizant Technology Solutions** | 2 days | (10.10.2009-11.10.2009) |
| Intellectual Property Rights & Entrepreneurship | BIT Campus, Anna University, Trichy (Organized by Programme Monitoring Office – Innovation& Entrepreneurship Development Programme, Entrepreneurship Development and Innovation Institute, **MHRD** | 2 days | 22.11.2019 – 23.11.2019 |
| Certificate course on Digital Teaching Techniques | **ICT Academy** (Online Training Programme) | 5 days | (12.10.2020-16.10.2020) |
| Integrate Data Analytics – the Tools and Applications around Industry Verticals | **AICTE training and Learning (ATAL) Academy, New Delhi** | 5 days | 05.07.2021 - 09.07.2021 |
| One week national online faculty development program/ certificate course on "MOOCs and e-Content Development" | Guru Angad Dev Teaching Learning Centre,SGTB Khalsa College, University of Delhi in association with **MHRD** | 7 days | 29th April to 05th May 2023. |
| One Week National Workshop on Peace Education | **United Board of Higher Education**& Centre of Peace Studies, MCC, Chennai | 5 days | August 14 to 18,2023 |
| One Week Faculty Development Program on Cloud Practitioner (AWS) | **ICT Academu** | 5 days | August 19-23,2024 |

**Journal / Articles Presented: (Attach the list using the format given below) : 4**

1. Nirmala. B. ,(2014). "WAN Optimization Tools, Techniques, Solutions and Research Issues for Cloud based BigData Analytics", 2014 World Congress on Computing and Communication Technologies, 280-285, WCCCT'2014.
2. M. Baby Nirmala (2011), "Constructing Semantic Web Services Infrastructure in Digital Libraries", E-Publishing in the Present Era of Consortium, 2011.
3. M. Baby Nirmala, Dr.J.G.R. Sathiaseelan (2015). Big Semantic Data Analytics: A Theoretical |Study On Implementation of Technology and Tools.2015.
4. M. Baby Nirmala, Dr.J.G.R. Sathiaseelan (2016), "An Innovative Approach to RDF Graph Data Processing: Spark with GraphX and Scala".2016.
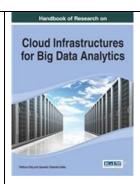
**Journal / Articles Published: (Attach the list using the format given below) : 15**

1. **M. Baby Nirmala( 2014)**, "WAN Optimization Tools, Techniques, Solutions and Research Issues for CloudBased Big Data Analytics IEEE Xplore Journal. PP: 282-285, Scopus Indexed, ISBN: 978-1-4799-2876-7. doi: 10.1109/WCCCT.2014.72. **(Scopus Indexed)**
2. **M. Baby Nirmala**, Dr.J.G.R. Sathiaseelan **(2015)**. Big Semantic Data Analytics: A Theoretical |Study On Implementation of Technology and Tools – International Journal of Applied Emerging and Research (IJAER), (Vol.10), Number 20(2015), PP: 19899-19906 Scopus Indexed, ISSN: 2278- 9677. **(Scopus Indexed)**
3. **M. Baby Nirmala**, Dr.J.G.R. Sathiaseelan **(2016),** "An Innovative Approach to RDF Graph Data Processing :Spark with GraphX and Scala", I J C T A, 9(26) 2016, pp. 425-434, © InternationalScience Press, 2016. Scopus Indexed, **(Scopus Indexed)**
4. **K**ulandhai Priya.V, M.Deepika**. M.Baby Nirmala(2018)**, "IPv6 Addressing methods in IoT Smart Environment", International Journal of Scientific Research in Computer Science Applications and Management Studies, Vol 7, Issue 5**.(UGC CARE Listed)**
5. **M Baby Nirmala**, J.G.R Sathiaseelan**(2021)**, " Empirical analysis of RDF Graph Data processing in Batch and In-memory processing for Social Networks", Webology 18 (5), 724-741. **(Scopus Indexed)**
6. **M Baby Nirmala, J.G.R Sathiaseelan (2021)**, "Enhanced RDF Graph Data In-memory Processing with

performance analysis for Social Networks", Webology 18 (6), 2157-2169. **(Scopus Indexed)**

7. Chellammal Surianarayanan1*, Sharmila Rengasamy[2], Pethuru Raj Chelliah[3,]**Baby Nirmala. M**[4] (**2022**), "Demystifying Cognitive Computing and its Use Cases", NeuroQuantology |September2022 | Volume 20 | Issue 11 | Page 1683-1687 |doi: 10.14704/nq.2022.20.11.NQ66162.

8. K. Lakshmi Priya, Ms. K. Haripriya,Ms. , **M.Baby Nirmala**(**2022**), "A Study on Smart Cities using Internet of Things", Perspectives of Smart and Innovative Technologies, pp 44-47,ISBN. 978-81-953467-6-9.

9. M.Deepika, V. Kulandhai Priya, **M.Baby Nirmala**(**2022**), "A survey on working Principles of Sensor-based Smart Homes", Perspectives of Smart and Innovative Technologies, pp 83-87 ISBN. 978-81-953467-

10. Nirmala, B., Abueid, R., & Ahmed, M.A. (**2022).** Big Data Distributed Support Vector Machine. Mesopotamian Journal of Big Data. Vol. (2022) 2022, pp. 12–22 https://doi.org/10.58496/MJBD/2022/00

11. Chellammal Surianarayanan[1], Sharmila Rengasamy[2], M. Baby Nirmala[3], Pethuru Raj Chelliah[4], Illustrating a Scalable Architecture-Powered Disease Prediction using Machine Learning Techniques, Volume: 13 , Issue: 3 , Pages: 2998 – 3006,2023. **(UGC Care Listed, DOAJ)**

12. **M. Baby Nirmala[1],** J.G.R. Sathiaseelan[2], Chellammal Surianarayanan[3], "Research Directions of Graph Analytics for Large Scale of Semantic data" Theoretical Computer Science, 2023 **(Scopus Indexed, Q2, WOS, communicated)**

13. **M. Baby Nirmala[1]**, D. Arockia Raj[2], J.G.R. Sathiaseelan[3], Chellammal Surianarayanan[4],"A Novel Ontology Graph Search Technique to reduce the Search Timing towards Enhanced Reachability for Social Networks", Frontiers of Computer Science, 2024 (Scopus Indexed, Q1, WOS, **communicated).**

14. Chellammal Surianarayanan, Chellammal Surianarayanan, Sharmila Rengasamy, **Baby Nirmala M,** Pethuru Raj Chelliah**(2023), "** A Scalable Architecture for Enhanced Techniques for prediction of Heart Diseases using Artificial Intelligence", Big Data and Cognitive Computing. **Scopus Indexed – Group 1 , Communicated…**

15. Chellammal Surianarayanan, Saranya Kunasekaran, Pethuru Raj Chelliah, **Baby Nirmala M**(2023), "A high-throughput Architecture for Anomaly Detection in Data Streams using Machine Learning (ML) Algorithms", Communicated… **Springer, Group I**

**Books Published:**

| Year | Title | Details |
|------|-------|---------|
| **2014** | Handbook of Research on Cloud Infrastructures for Bigdata Analytics, **IGI Global Press, USA, 2014** | Contributed 2 Chapters, Big Data Computing andReference Architecture and Big Data Analytic System in a book titled "**Cloud Infrastructures for Bigdata Analytics"** http://www.igi-global.com/chapter/big-data-computing-reference-architecture/103209, DOI: 10.4018/978-1-4666-5864-6.ch002 http://www.igi-global.com/chapter/a-survey-of-big-data-analytics-systems/103223,, DOI: 10.4018/978-1-4666-5864-6.ch016 |

| | | |
|---|---|---|
| | Handbook of Research on Cloud Infrastructures for Big Data Analytics | |
| **2015** | Computational Intelligence for Big Data Analysis.**Springer, UK, 2015**<br> | Contributed one chapter on Cloud Based Big Data Analytics: WAN Optimization Techniques and Solution in a Book Titled "**Computational Intelligence for Big Data Analysis".**<br>DOI: 10.4018/978-1-4666-9840-<br>ISBN13: 9781466698406|ISBN10: 1466698403|<br>EISBN13: 9781466698413|<br>https://link.springer.com/chapter/10.1007/978-3-319-16598-1_11 |
| **2016** | Big data concepts, Methodologies, tools and technologies.**IGI Global Press, USA, 2016**<br> | Contributed 2 Chapters, Big Data Computing and Reference Architecture andBig Data Analytic System in a book titled **"Big dataconcepts, Methodologies, tools and technologies"** https://www.igi-global.com/chapter/big-data- computing-and-the-reference-architecture/150158 |

**Conferences /seminars/ symposia/workshops – Organized/Resource Person/Attended :**

| Academic | Name of the Conferences | National / | Online | Role | Details |
|---|---|---|---|---|---|

| Year | /seminars/ symposia/workshops | International | / offline | | |
|---|---|---|---|---|---|
| 2010 | Web Engineering, 2010 | National Level Conference | Offline | Organizing Secretary, | Holy Cross College, Tiruchirappalli -2 (19.02.2010-20.02.2010) |
| 2010 | Emerging trends in Communication and Information Technology | National level Conference | Offline | Organizing Member, | Holy Cross College, Tiruchirappalli -2 |
| 2017 | Cloud – Journey to Industry | International Level Seminar | Offline | Organizing Member | Holy Cross College, Tiruchirappalli -2 |
| 2017 | Seminar on Innovative Computing Technologies | National Level Conference | Offline | Organizing Member | Holy Cross College, Tiruchirappalli -2 (08-01-2018) |
| 2018 | Conference on Data Science, 2018 | National Level Seminar | Offline | Organizing Secretary | Holy Cross College, Tiruchirappalli -2 (20.02.2018) |
| 2021 | Online ATAL- Faculty Development Program on Integrated Data Analytics the tools and applications across Industrial Verticals | National Level Seminar | Offline | Organizing Member | Holy Cross College, Tiruchirappalli -2 |
| 2022 | Sustainable Development and Environmental Protection | In-service Program | Offline | Organizing Member | CICRSD, Holy Cross College (Autonomous) |
| 2022 | Art of Writing Proposal for Research Projects | In-service Program | Offline | Organizing Member | CICRSD, Holy Cross College (Autonomous) |
| 2023 | Futuristic trends in Computational Trends | International Conference | Offline | Organizing Secretary | PG Department of Computer Applications, Holy Cross College, Tiruchirappalli -2 (28-02-2022) |
| 2001 | Networking of Human resource Industry and Technology. | International Conference | Offline | Participation | Holy Cross College, Tiruchirappalli -2 (10.01.2001-12.01.2001) |
| 2003 | Sustainable Development and Management of Natural Resources | National Level Conference | Offline | Participation | Holy Cross College, Tiruchirappalli -2 (15.01.2003-17.01.2003) |
| 2003 | Future trends of Information Technology. | State level Seminar | Offline | Participation | Kavery College, Tiruchy. (100.7.2003-11.07.2003) |
| 2009 | J2EE and Best Practices in Application Development | State Level skill based Training Program by ICT Academy & Cognizant Technology Solutions | Offline | Participation | Technology Park, Kajamalai Campus, Bharathidasan University, Trichy |
| 2010 | Web Services | State level Workshop | Offline | Participation | Bishop Heber College, Tiruchy -17 (30.09.2010) |
| 2010 | Advanced Leadership | One week State Level Seminar | Offline | Participation | Bishop Heber College, Trichy-17 |
| 2011 | E-Publishing in the Present Era of Consortium | National Level Conference | Offline | Presented paper on "Constructing Semantic Web Services Infrastructure in Digital Libraries" | Holy Cross College, Tiruchirappalli -2 (21.03.2011-22.03.2011) |

| 2012 | Data Management on Cloud Computing Platforms | National Level Seminar | Offline | Participation | NIT, Trichy (01.08.2012) |
|------|---------------------------------------------|------------------------|---------|---------------|--------------------------|
| 2014 | Three pillars of IT Today & Future | National Level Workshop | Offline | Participation | Karur College of Engineering, Karur, Tamilnadu(1.02.2014) |
| 2014 | Advanced Computing | National Level Conference | Offline | Participation | Jamal Mohammed College, Tiruchirappalli, T.N.(05.03.2014) |
| 2014 | Research Issues in Big Data Analytics | National Level Workshop by computer Society of India Chapter | Offline | Participation | Bharathidasan University, Kajamalai Campus, Tiruchirappalli, T.N.(27.3.2014) |
| 2014 | Hands on Experience on Big Data Analytics Tools. | National Level Workshop | Offline | Participation | Kongu Nadu Engineering College, Erode(19.09.2014-20.09.2014) |
| 2014 | Communication and Computer Science and Technology | World Congress | Offline | Presented paper on WAN Optimization Tools, Techniques, solutions and research issues for Cloud based Big Data Analytics | St. Joseph College, Tiruchirappalli, T.N. |
| 2015 | Big Data Analytics | State Level Seminar | Offline | Resource Person | Bharathidasan University Constituent College for Women. Orathanadu. |
| 2015 | Data Analytics and Business Intelligence | National Level Workshop | Offline | Participation | School of Computer Science & Engg. VIT Vellore. |
| 2015 | Innovation in Information Embedded and Communication Systems (ICIIECS'15) | IEEE Springer International Conference | Offline | Presented a Paper on Big Semantic Data Analytics:A Theoretical Study On Implementation of Technology and Tools | Karpagam College of Engineering Coimbatore |
| 2016 | Big Data Analytics | National Level Workshop | Offline | Participation | Kongu Arts and Science College, Erode. (08.01.2016-09.01.2016) |
| 2016 | Wearable Devices and Big data | International Level Seminar | Offline | Participation | Bishop Heber College, Trichy {6.04.2016) |
| 2017 | Data Science Open Source Languages | International Level Workshop | Offline | Participation | Bharathidasan University, Trichy 04.01.2017-06.01.2017) |
| 2018 | Goodness of God and Nature | National Level Seminar by Xavier Board of Higher Education and Holy Cross College | Offline | Participation | Holy Cross College, Trichy(6.01.2018) |

| 2020 | Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives | One week online International Faculty Development Program | Online | Participation | CICRSD, Holy Cross College (Autonomous) (4.7.2020 -10.7.2020) |
|---|---|---|---|---|---|
| 2020 | Risk Management in Times of Crisis | One day webinar | Online | Participation | Internal Quality Assurance Cell, Holy Cross College, Trichy-2(12.6.20) |
| 2020 | Seed and Weed – Nurturing Relationships | One day webinar | Online | Participation | Holy Cross College, Trichy-2(2.06.2020) |
| 2020 | Online Content Creation Tools | One day webinar | Online | Participation | PG Department of Computer Science, Bishop Heber College, Trichy-211.6.2020) |
| 2020 | Predatory Journals – A Growing threat for Academicians | One day webinar | Online | Participation | PG Department of Computer Science, Bishop Heber College, Trichy-2(04.07.2020) |
| 2020 | Data Analytics & Applications | One day International Webinar | Online | Participation | PG Department of Computer Science, Bishop Heber College, Trichy-2(12.6.20) |
| 2020 | ICT Tools for the 21st Century Teacher | One day webinar | Online | Participation | PG Department of Computer Science Holy Cross College, Trichy-2(10.07.2020) |
| 2020 | Online Research Tools | One day International Webinar | Online | Participatopn | PG Department of Computer Science, Bishop Heber College, Trichy-2(10.7.20) |
| 2021 | Integrated Data Analytics - the Tools and Applications around Industry Verticals | Online FDP by AICTE Training and Learning Academy (ATAL ACADEMY) | Online | Participation | PG Department of Computer Science Holy Cross College, Trichy-2 {5.7.2021-9.7.2021) |
| 2021 | Blended and Inclusive strategies in Artificial Intelligence and Machine Learning | Faculty Development Program | Online | Participation | PG Department of Computer Science Holy Cross College, Trichy-2 (18.10.2021-22.10.2021) |
| 2021 | FDP on Data Science for All | National Level FDP | Online | Participation | Electronics & ICT Academies, Ministry of Electronics and Information Technology, Govt. of India |
| 2021 | FDP on Python | National Level FDP | Online | 2021 | Electronics & ICT Academies, Ministry of Electronics and Information Technology, Govt. of India (July 26 – August 06 , 2021) |
| 2022 | Machine Learning and Artificial Intelligence in pandemic era | Faculty Development Program | Online | Participation | PG Department of Computer Applications, Holy Cross College, Trichy-2 (22.4.22) |

| 2022 | Research Areas in Data Analytics and Security | International Seminar | Offline | Participation | PG Department of Data Science, Holy Cross College, Trichy(19.12.2022) |
|------|-----------------------------------------------|-----------------------|---------|---------------|---------------------------------------------------------------------|
| 2023 | Innovative Technologies & cyber Security | International Seminar | Offline | Participation | PG Department of Computer Science, Holy Cross College, Trichy(05.01.2022) |

**Conference/Seminar/Workshop/ Training Programme Organized** - Academic & General:

| S. No. | Theme | Place | International / National / State level | Year |
|--------|-------|-------|----------------------------------------|------|
| 1. | Conference on WEB Engineering ,2010 | Holy Cross College, Trichy | National Level | 2010 |
| 2 | Emerging trends in Communication and Information Technology | Holy Cross College, Trichy | National Level Conference | 2010 |
| 3 | Seminar on Cloud – Journey to Industry | Holy Cross College, Trichy | International Level | 2017 |
| 4 | Seminar on Innovative Computing Technologies | Holy Cross College, Trichy | National Level | 2017 |
| 5 | Conference on Data Science, 2018 | Holy Cross College, Trichy | National Level | 2018 |
| 6 | Online Faculty Development Program on Integrated Data Analytics the tools and applications across Industrial Verticals | Holy Cross College, Trichy | National Level | 2021 |
| | | | | |

**Conference/Seminar/Workshop/ Training Programme attended** - Academic & General:

| S. No. | Theme | Place | International / National / State level | Year | Resource Person / Paper Presentation / Participation |
|---|---|---|---|---|---|
| 1 | Sustainable Development and Management of Natural Resources | Holy Cross College, Trichy | International Level Conference | 2003 | Participation |
| 2 | Current IT trends & future of IT Industry | TREC-STEP, Regional Engineering College, Trichy | State Level Seminar | 2003 | Resource Person |
| 3 | Web Services | Bishop Heber College, Trichy. | State Level Workshop | 2010 | Participation |
| 4 | J2EE and Best Practices in Application Development | Bharathidasn University, Trichy | State Level skill based Training Program by ICT Academy & Cognizant Technology Solutions | 2009 | Participation |
| 5 | Web Services | Bishop Heber College, Trichy | State Level Work shop | 2010 | Participation |
| 6 | Emerging trends in Communication and Information Technology | Holy Cross College, Trichy | National Level Conference | 2010 | Organizing member |
| 7 | Advanced Leadership | Bishop Heber College, Trichy | One week State Level Seminar | 2010 | Participation |
| 8 | E-Publishing in the Present Era of Consortium | Holy Cross College, Trichy | National Level Conference | 2011 | Presented paper on "Constructing Semantic Web Services Infrastructure in Digital Libraries" |
| 9 | Data Management on Cloud Computing Platforms | NIT, Trichy | National Level Seminar | 2012 | Participation |
| 10 | Why Big Data Analytics ? | Sri Venkateshwara University, Thirupathi, A.P | National Conference in Data Mining and Machine Learning | 2014 | Resource Person |
| 11 | Cloud Computing. SOA and Bigdata | Karur College of Engineering, Karur, Tamilnadu | National Level Workshop | 2014 | Participation |

| 12 | Advanced Computing | Jamal Mohammed College, Tiruchirappalli, T.N. | National Level Conference | 2014 | Participation |
|---|---|---|---|---|---|
| 13 | Research Issues in Big Data Analytics | Bharathidasan University, Kajamalai Campus, Tiruchirappalli, T.N. | National Level Workshop by computer Society of India Chapter at Bharathidasan University | 2014 | Participation |
| 14 | Hands on Experience on Big Data Analytics Tools. | Kongu Nadu Engineering College, Erode. | National Level Workshop | 2014 | Participation |
| 15 | World Congress for Communication and Computer Science and Technology | St. Joseph College, Tiruchirappalli,T.N. | International Level Conference | 2014 | Presented paper on WAN Optimization Tools, Techniques, solutions and research issues for Cloud based Big Data Analytics |
| 16 | Big Data Analytics | Bharathidasan University Constituent College forWomen. Orathanadu. | Sate LevelSeminar | 2015 | Resource Person |
| **17** | **Advanced Leadership Training** | **Haggai Institute, Maui, Hawaii, USA** | **International Training Program** | **2015** | **Participation** |
| 18 | Data Analytics and Business Intelligence | VIT Vellore. | National Level Workshop | 2015 | Participation |
| | | | | | |

| 19 | Innovation in Information Embedded and Communication Systems (ICIIECS'15) | Karpagam College of Engineering, Coimbatore. | IEEE Springer International Conference | 2015 | Presented a Paper on BigSemantic Data Analytics:A Theoretical \|Study On Implementation of Technology and Tools |
|---|---|---|---|---|---|
| 20 | Big Data Analytics | Kongu Arts and Science College, Erode. | National Level Workshop | 2016 | Participation |
| 21 | Wearable Devices and Big data | Bishop Heber College, Trichy | International Level Seminar | 2016 | Participation |
| 22 | Data Science Open Source Languages | Bharathidasan University, Trichy | International Level Workshop | 2017 | Participation |
| 23 | Goodness of God and Nature | Holy Cross College | National Level Seminar by Xavier Board of Higher Education and Holy Cross College | 2018 | Participation |
| 24 | **Chaplaincy Training Program - Phase I** | **Lady Doak College, Madurai, Tamil Nadu** | **One week Certificate training** Program by **United Board of Christian Higher Education, Asia** | **2018** | **Participation** |
| 25 | **Chaplaincy Training Program - Phase II and Phase III** | **Lady Doak College, Madurai, Tamil Nadu** | **One week Certificate Training** Program by **United Board of Christian Higher Education, Asia** | **2019** | **Participation** |
| 26 | Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives | CICRSD, Holy Cross College (Autonomous) | One week online International Faculty Development Program | 2020 | Participation |
| | Risk Management in Times of Crisis | Internal Quality Assurance Cell, Holy Cross College, Trichy-2 | One day webinar | 2020 | Participation |
| | Seed and Weed – Nurturing Relationships | Holy Cross College, Trichy-2 | One day webinar | 2020 | Participation |
| | Online Content Creation Tools | PG Department of Computer Science, Bishop Heber College, Trichy-2 | One day webinar | 2020 | Participation |
| | Predatory Journals – A Growing threat for Academicians | PG Department of Computer Science, Bishop Heber College, Trichy-2 | One day webinar | 2020 | Participation |
| | Online Research Tools | PG Department of Computer Science, Bishop Heber College, Trichy-2 | One day webinar | 2020 | Participation |
| | ICT Tools for the 21$^{st}$ Century Teacher | PG Department of Computer Science Holy Cross College, Trichy-2 | One day webinar | 2020 | Participation |

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|---|---|---|---|---|---|
| | Digital Teaching Techniques | ICT Academy | **One week online Certificate Course** | 2020 | Participation |
| | Integrated Data Analytics - the Tools and Applications around Industry Verticals | AICTE Training and Learning Academy (ATAL ACADEMY) | One Week online Faculty Development Program | 2021 | Participation |
| | Data Science for all | Electronics & ICT Academies | Ministry of Electronics and Information Technology of India sponsored **Certificate Course** | **2021** | **Participation** |
| | Python Programming | Electronics & ICT Academies | Ministry of Electronics and Information Technology of India sponsored **Certificate Course** | **2021** | **Participation** |
| | Blended and Inclusive strategies in Artificial Intelligence and Machine Learning | PG Department of Computer Science, Holy Cross College, Trichy-2 | One day Faculty Development Programme | 2021 | Participation |
| | Machine Learning and Artificial Intelligence in pandemic era | PG Department of Computer Applications Holy Cross College, Trichy-2 | One day Virtual Seminar | 2022 | Participation |
| | Block Chain &Web 3.0 | Pixel Test, Centre for continuing Education, IIT Madras | Virtual Seminar | 2022 | Participation |
| | Suicide Prevention | PG Department of Social Work, Holy Cross College, Trichy-2 | One day National Workshop | 2024 | Participation |
| | | | | | |

**Patent Filed**

**Patent No: 1**

1. APPLICATION NUMBER       202241012074
2. APPLICATION TYPE       ORDINARY APPLICATION
3. DATE OF FILING       07/03/2022
4. APPLICANT NAME       1 . Dr. G. THENMOZHI
      2 . Dr. P. RADHAKRISHNAN
      3 . Mrs. RAYNUKAAZHAKARSAMY
      4 . **M. BABY NIRMALA**
      5 . Dr. J.G.R. SATHIASEELAN
      6 . AMOL LAXAMN MANGRULKAR
      7 . MANJUSHA AMOL MANGRULKAR
      8 . Ms. SHARVARI S. TANTARPALE
      9 . Dr. R. THIAGARAJAN
5. TITLE OF INVENTION       **FORECASTING OF SOIL NUTRIENTS WITH PH RANGE IN FARMING USING DEEP LEARNING TECHNIQUE**
6. FIELD OF INVENTION       MECHANICAL ENGINEERING
7. E-MAIL       (UPDATED Online)
8. PRIORITY DATE
9. REQUEST FOR EXAMINATION DATE   --
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5. TITLE OF INVENTION      BLOCKCHAIN IN DATA COMMUNICATION
     CHANNEL OF

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**Awards received**

1. "Digital Teacher", ICT ACADEMY, 2020

**Details of membership in professional bodies /journals, editors, consultancy, resource person**

1. Reviewers in International journals.

2. Reviewer for Journal of Network and Computer Application in 8

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  **https://scholar.google.co.in/citations?user=GWMrD6cAAAAJ&hl=en**
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