



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING-BARGUR
(AUTONOMOUS)**

KRISHNAGIRI-635104, TAMIL NADU

**Approved by AICTE, New Delhi & Affiliated to Anna University,
Chennai**

Visit us :www.gcebargur.ac.in



FACULTY PROFILE

Name: **Dr. K. KUMAR**
Degree: **M.E., Ph.D.**
Current Designation: **Associate Professor**
Department: **Computer Science and
Engineering**



Contact Phone Number: **9842772083**
Email (Official Preferred): **k.kumar@gcebargur.ac.in / kkumar@get.ac.in**

Current Research Areas :

Machine Learning
Software Defined Networks
Named Data Networking
Data Center Networking
Cryptography

Academic Performance : (Degree to Highest Qual.)

Sl. No	Degree	Major	Year of Completion	Institution/University	Class
1	Ph.D.	Information and Communication Engineering	23/05/2013	Anna University, Chennai	--
2	M.E.	Computer Science in Engineering	2005	GCT, Coimbatore /Anna University	First class
3	B.E.	Computer Science in Engineering	1999	Priyadarshini Engineering College / University of Madras	First class

ACHIEVEMENTS: NPTEL DOMAIN CERTIFICATE



NPTEL DISCIPLINE STAR in CSE



EXPERIENCE:

1. April 2023 - Present

Associate Professor, Department of CSE, Government College of Engineering
Bargur- 635104, Krishnagiri DT, TN, India

2. July 2018 - April 2023

Associate Professor (CAS), Department of CSE, GCT, Coimbatore, TN, India

3. November 2014 – July 2018

Assistant Professor (Sl.G), Department of CSE, GCT, Coimbatore, TN, India

4. August 2013 – October 2014

Assistant Professor (Sr.G), Department of CSE, GCT on re-deployment posted
at Government College of Engineering, Sriragam, Trichy, TN, India

5. July 2011 – July 2013

Assistant Professor (Sr.G), Department of CSE, GCT, Coimbatore, TN, India

6. April 2010 – July 2011

Assistant Professor, Department of CSE, Government College of Engineering,
Tirunelveli- 627 007, on Deployment posted at Government College of
Engineering, Bargur, TN, India.

7. July 2006– March 2010

Lecturer, Department of CSE, Government College of Engineering, Tirunelveli
627007, on Deployment posted at Government College of Engineering Bargur,TN.

8. June 2005 – July 2006

Lecturer, Department of CSE, Adhiyamaan Engineering College, Hosur-635 109.

9. August 2000 – July 2003

Lecturer, Department of CSE, Adhiyamaan Engineering College, Hosur-635 109.

Awards and Recognitions:

1. TCS Best Project Award for the UG Project guided during (2011 -2012)
2. TCS Best Project Award for the UG Project guided during (2012 -2013)
3. TCS Best Project Award for the UG Project guided during (2017 -2018)

LIST OF PUBLICATIONS: International Journal PUBLICATIONS:

2023

1. K. Paul Mathi Priyanka, **Dr. K. Kumar** , “**Review on Recent Developments on Detection of Fall**”, Journal of Trends in Computer Science and Smart Technology (ISSN: **2582-4104**) , Volume 5, Issue 2, Pages 119-135 , June 2023.

2021

2. B. DEEPTHI, **DR.K. KUMAR** , " **Survey on Vulnerability Prediction from Source Code by using Machine Learning Algorithm** ", International Research Journal of Engineering and Technology (IRJET), **e-ISSN: 2395-0056, p-ISSN: 2395-0072**, Volume: 08 Issue: 01 , Page 1201 - 1208 , Jan 2021.
3. S. A. NEELAVANI, **DR. K. KUMAR** , " **Comprehensive Survey on Skin Segmentation on Dermoscopic Images using SSS-Net** ", International Research Journal of Engineering and Technology (IRJET), **e-ISSN: 2395-0056, p-ISSN: 2395-0072**, Volume: 08 Issue: 01 , Page 1209 - 1214 , Jan 2021.

2020

4. V. Indhumathi, **Dr. K. Kumar** , "A Survey on Deep Reinforcement Learning Network for Traffic Light Cycle Control", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 6 Issue 4, pp. 285-293, July-August 2020. Available at doi : <https://doi.org/10.32628/CSEIT206458> Journal URL : <http://ijsrcseit.com/CSEIT206458>.
5. S. Karthickkumar, **Dr. K. Kumar**, "**Deep Learning for Human Action Recognition with Convolution Neural Network**", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456- 3307, Volume 6 Issue 4, pp. 376-380, July-August 2020. Available at doi : <https://doi.org/10.32628/CSEIT206466>
6. U. Priyanka , **Dr. K. Kumar** , " **RECOVERY OF MISSING DATA USING ENHANCED PROBABILISTIC MATRIX FACTORIZATION** ", *International Journal of Engineering Applied Sciences and Technology*, 2020 Vol. 5, Issue 2, ISSN

2019

7. **K.Kumar** , R. Srija, " **Pedestrian and Lane Detection using Computer Vision**", nternational Journal of Innovative Research in Applied Sciences and Engineering (IJIRASE) DOI: 10.29027/IJIRASE.v3.i11.2019, ISSN(Online) : 2456-8910, , Volume 3 , Issue 1 ,Pages 416-419, 2019.
8. K. ArunSelvi , **Dr. K. Kumar** , K.Ramalakshmi and A.Sathiya," **A Hybrid Framework for TCP Incast Congestion Control in Data Center Networks**", International Journal of Recent Technology and Engineering(IJRTE),ISSN: 2277-3878 ,**Volume 8 (Issue 2)** Pages 798-806 , July 2019.

2018

9. J. Athena V. Sumathy **K. Kumar**, "**An identity attribute-based encryption using elliptic curve digital signature for patient health record maintenance.**" International Journal of Communication Systems Volume 31 Issue 2 , 2018. Impact factor:1.066.
10. K. ArunSelvi and **Dr. K. Kumar**," **Survey on Congestion Control Frameworks in Data Center Networks**" Research Journal of Science and Engineering Systems ,**Volume 3 (Issue 1)** Pages 101-112 , 2018.
11. G. Govarthanan and **Dr. K. Kumar** ," **A Dedicated Communication System for the Effective Implementation of E-Governance in India**", Research Journal of Science and Engineering Systems (RJSCES) , ISSN 2581-3560 ,Volume 2 , Page: 82-90 , 2018.

2017

12. **K Kumar**, Keerthanaa R , " **Smartphone based Insulin Recommendation for Type I diabetes**" , International Journal of Scientific & Engineering Research Volume 8, Issue 5, pp.58 -64 ,May-2017.
13. **K Kumar**, A.Linda Sherin," **Similar Herb Selection using Data Mining**", International Journal of Scientific & Engineering Research Volume 8, Issue 5, pp.51 -56 ,May-2017.

2014

14. Nafeesa Begum, J, **Kumar, K**&Sumathy, V, "**Integrating Symmetric Polynomials and Tree Based Group Elliptic Curve Diffie Hellman Scheme for providing Hierarchical Access Control In Government Organizations**", Global Journal of Pure and Applied Mathematics (GJPAM). Print ISSN : 0973-1768. Online ISSN: 0973-

15. Nafeesa Begum, J, **Kumar, K** & Sumathy, V, “**Hierarchical Access Control in Dynamic Peer Groups Using Symmetric Polynomial and Tree Based Group Elliptic Curve Diffie Hellman Scheme**”, Journal of Computer Science, March 2014, 1650-1665, ISSN: 1549-3636, © 2014 Science Publications, doi:10.3844/jcssp.2014.1650.1665 Published Online 10 (10) 2014 (<http://www.thescipub.com/jcs.toc>) (Anna University Annexure II- 2013 list- Sl. No: 9901) ,2014.

2011

16. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “Cost Effective Region-Based Group Key Agreement Protocol for Ad Hoc Networks Using Elliptic Curve Cryptography”, Lecture notes in Computer Science (LNCS), Vol.7135, pp.505-514, 2011. (ISSN: 0302-9743).

2010

17. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “**A Novel Approach Towards Cost Effective Region-Based Group Key Agreement Protocol for Peer -To - Peer Information Sharing in Mobile Ad Hoc Networks**” International Journal of peer-to-peer networks (IJP2P) Vol.1, No.1, pp.10-28, 2010. (ISSN: 2229 - 5240) .
18. **Kumar K.**, Nafeesa Begum, and Dr.V.Sumathy, “**A Novel Approach towards Cost Effective Region-Based Group Key Agreement Protocol for Ad Hoc Networks Using Chinese Remainder Theorem**”, International Journal of Computer Science & Emerging Technologies (*IJCSET*), Vol. 1, No. 2, pp. 72-82, 2010. (ISSN: 2044-6004).
19. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “**A Novel Approach towards Cost Effective Region-Based Group Key Agreement Protocol for Secure Group Communication**”, International Journal of Computer Science and Information Security (IJCSIS), Vol. 8, No. 2, pp. 65 -74, 2010. (Cited by 2) (ISSN: 1947-5500) .
20. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “**A Novel Approach towards Cost Effective Region-Based Group Key Agreement Protocol for Ad Hoc Networks using Elliptic Curve Cryptography** ”, International Journal of Communications, Network and System Science (IJCNS), Vol.3, No.4, pp.369-379, 2010.(ISSN: 1913-3715).
21. Nafeesa Begum, J, **Kumar, K** & Sumathy, V, “**Deploying Domain Keys for Multilevel Access Control using Elliptic curve Cryptography**”, International Journal of Computational and Applied Mathematics (IJCAM), ISSN:1819-4966, vol. 5 no. 2, pp. 113-127, 2010.
22. Nafeesa Begum, J, **Kumar, K** & Sumathy, V , “**Design and Implementation of Multilevel Access Control in Medical Image Transmission Using Symmetric Polynomial Based Audio Steganography**”, International Journal of Computer

Science and Information Security, ISSN: 1947-5500 Publisher: LJS Publisher and IJCSIS Press and Country of Publication: United States of America. March 2010.

23. Nafeesa Begum, J, **Kumar, K** & Sumathy, V, “**Multilevel Access Control in a MANET for a Defense Messaging system using Elliptic Curve Cryptography**”, International Journal of Computer Science & Security (IJCSS), (CSC Press, Malaysia), ISSN - 1985-1553 ,vol. 4, no. 2, pp.208, 225, 2010.
24. Nafeesa Begum, J, **Kumar, K** & Sumathy, V, “**Design and Implementation of Multilevel Access Control in Synchronized Audio to Audio Steganography Using Symmetric Polynomial Scheme**”, Journal of Information Security, vol.1, pp. 29-40 Published Online July 2010 (<http://www.SciRP.org/journal/jis>) **ISSN Print:** 2153-1234, **ISSN Online:** 2153-1242.

2008

25. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “ A Cost Effective Region Based Group Key Agreement Protocol for Ad Hoc Networks using Elliptic Curve Cryptography”, International Journal of Cryptography and Security, Vol.1, No.2, pp.1-14, 2008. (ISSN: 0974 – 3359).
26. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “Efficient Hybrid Region-Based Key Agreement Protocol for Secure Group Communication”, International Journal of Engineering Research and Industrial Applications (IJERIA), Vol.1, No.V, pp.203–214, 2008. (ISSN: 0974 – 1518)

International Conference PUBLICATIONs:

2020

1. S. Karthickkumar, **Dr. K. Kumar**, " A survey on Deep Learning techniques for human action recognition ", IEEE International Conference on Computer Communication and Informatics (ICCCI -2020), Jan. 22-24, 2020, Coimbatore, INDIA.

2018

2. Nancy J Gnana Amala, **K Kumar** , " Content Popularity Prediction Methods-A Survey ", IEEE 3rd International Conference on Communication and Electronics Systems (ICCES), Page . 749 - 753, 2018.
3. G. Suganya, **K. Kumar** , " A Survey on Edge Computing Using IOT Systems ", IEEE 3rd International Conference on Communication and Electronics Systems (ICCES), Page . 1095 - 1099, 2018.
4. G. Govarthan and **Dr. K. Kumar**, "An Ideal Communication system for Rural and Agricultural development using ICT", International Conference on IEEE Technological Innovations in ICT for Agriculture and Rural development , April 2018.

5. Kavi Raj and **Dr. K. Kumar**," A survey of technique for Machine translation from English to Tamil ", International Conference on Advances in Engineering and Technology, March 2018.

2017

6. Nafeesa Begum, J, **Kumar, K** & Sumathy, V, “ Performance Investigation of Dual encryption Hierarchical access control protocol realized with symmetric polynomials and Diffie-Hellman schemes", International Conference on Advances in Robotics, Energy and Network Systems (ICARENS 2017) , March 2017.
7. Manikandan , and **Dr. K. Kumar**," Minimizing the Maximum number of Flow Rules in SDN", National Conference on Information and Communication Technology, April, 2017.

2016

8. **K Kumar**, N Praveen , "Software-defined networking: Reconfigurable network systems in LAN topology", 3rd International Conference on Advanced Computing and Communication Systems (ICACCS), Volume 1 Pages 1-5, 2016.
9. **K Kumar**, M Ramya Bagavathi , " Thriving the ills of elderly people using big data analytics", International Conference on Computer Communication and Informatics (ICCCI), Pages 1-6, 2016 .

2015

10. **K Kumar**, M Micheal Santha Soniya, " A survey on named data networking", 2nd International Conference on Electronics and Communication Systems (ICECS), Pages 1515-1519, 2015.

2014

11. Nafeesa Begum, J, **Kumar, K**&Sumathy, V, “A Two Tier Protocol for Hierarchical Access Control Problem in Group Communication”, 2014 International Conference on Communication and technology and Application (CTA2014), August 19-20, 2014 Beijing, China. (Published in WIT Transactions on Information and Communication Technologies (ISSN: 1743- 3517) vol. 60. (Anna University Annexure II- 2013 list – Sl.No: 19104).
12. Nafeesa Begum, J, **Kumar, K**&Sumathy, V, “Implementing Hierarchical Access Control in Organizations using Symmetric Polynomials and Tree Based Group Diffie Hellman Scheme”, International Conference on Circuits, Systems, Communications and Computers (CSCC '14) and EUROPMENT Conference, Santorini Island, Greece, July 17-21, 2014.
13. Nafeesa Begum, J, **Kumar, K**&Sumathy, V, “Symmetric Polynomial and GECDH based Hierarchical Access Control using Dual Encryption Scheme”, 7th IETE

IconRFW-2014 to held at HKBK College of Engg., Bangalore, Karnataka from 8 - 10 May 2014.

14. Nafeesa Begum, J, **Kumar, K**, Sumathy, V, “Two tier protocol for hierarchical access control in medical image transmission”, 2014 International Conference on Computing for Sustainable Global Development (INDIACom), Date of Conference: 5-7 March 2014, pp. 769-775, Print ISBN: 978-93-80544-10-6, Conference Location : New Delhi, India, Digital Object Identifier : 10.1109/India Com.2014.6828067(Indexed in IEEE Explore)

2010

15. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “Efficient Region-Based Key Agreement for Peer -to – Peer Information Sharing in Mobile Ad Hoc Networks”, First International Workshop on Trust Management in P2P Systems (IWTMP2PS2010), pp.280-295, 2010,(ISSN: 1865-0929).
16. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “A Secure Ubiquitous Computing Approach for Serving Elderly Citizens”, 12 thIEEE International Conference on International Conference on Computer Modelling and Simulation (UKSIM.2010), pp. 653 -658, 2010. (ISBN: 978-0-7695-4016-0) (Indexed in IEEE Explore).
17. Nafeesa Begum, J, **Kumar, K**&Sumathy, V, “A Novel Approach towards Multilevel Access Control for Secure Group Communication Using Symmetric Polynomial Based Elliptic Curve Cryptography”, The International Conference on Computational Intelligence and Communication Networks 2010, Rajiv Gandhi ProdhogikiVishwavidhyalaya, (State Technical University), Bhopal, November 26-28, 2010 (Indexed in IEEE Explore).

2009

18. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “A Novel Approach towards Cost Effective Region-Based Group Key Agreement Protocol for Ad Hoc Networks”, IEEE First International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN2009), pp.470 -475, 2009.(ISBN: 978-0-7695-3743-6) (Indexed in IEEE Explore)
19. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “ Efficient Region-Based Group Key Agreement Protocols for Ad Hoc Networks using Elliptic Curve Cryptography”, IEEE International Advance Computing Conference(IACC-2009), Patiala, India, pp. 1052-1060, 2009.(Indexed in IEEE Explore)

2008

20. **Kumar, K.**, Nafeesa Begum, J. and Dr. Sumathy, V. “ An Efficient Region Based Group Key Agreement Protocol using Elliptic Curve Cryptography for Ad Hoc Networks”, Proceedings of the International Conference on Digital Factory, ICDF 2008, August 11-13, Coimbatore, INDIA, pg.1275 -1282, 2008.

Academic Responsibility and Role:

- 1. Career Development Cell Officer, GCE Bargur**
- 2. IQAC - Member, GCE Bargur.**
- 3. Faculty Advisor - PG, GCE Bargur.**
- 4. UG - Programme Coordinator (GCT)**
- 5. Faculty Advisor (2017-2021 Batch) (GCT)**
- 6. Department Coordinator for MoU. (GCT)**
- 7. SPOC - Digital Class Room Coordinator (GCT)**
- 8. Anti ragging committee member (GCT)**
- 9. Anti Gender Harassment Committee / Prevention and Prohibition of sexual harassment of women employees and students Committee member. (GCT)**
- 10. Department TEQIP Coordinator (GCT)**
- 11. QEEE Coordinator (GCT)**
- 12. SPOC – Naan Mudhalvan (GCT)**
- 13. Exam Cell officer (Bargur & GCT)**

Contributions to the Institution, Department and Society:

- 1. KIT -Coimbatore , BOS-CSE , Anna University Nominee**
- 2. Muthayammal Engineering College , Rasipuram , BOS-CSE , Anna University Nominee**
- 3. Tamil Nadu Engineering Admission 2020 - Online Counseling - Software Testing Team Member (Software Requirement Specification and User Acceptance Test)**
- 4. Online Counseling for MBA/MCA 2020 - Software Development Team Member.**
- 5. Tamil Nadu Engineering Admission 2019 - User Acceptance Test (UAT) Team Member**
- 6. Adhiyamaan College of Engineering , Hosur - Academic Council Member (2016-2018).**

2024

NPTEL Certifications:

Month & Year	Course Name	Performance
Oct 2024	NPTEL DOMAIN: Artificial Intelligence Computer Science and Engineering	
Jul - Dec 2023	Computer Science and Engineering	NPTEL DISCIPLINE STAR
Jan-Apr 2024	Artificial Intelligence: Knowledge Representation and Reasoning 12 weeks - 3 credits	62%
Jul-Oct 2024	Artificial Intelligence: Search Methods For Problem solving. 12 weeks	66%

NPTEL - AICTE Faculty Development Programme:

Sl. No	Name of the Programme
1	NPTEL - AICTE One and half week Faculty Development Programme on Artificial Intelligence: Knowledge Representation and Reasoning.
2.	NPTEL - AICTE One and half week Faculty Development Programme on Artificial Intelligence: Search Methods For Problem solving.

2021 - 2023

Details of Courses/Seminars/Workshops/FDPs/SDPs/Conferences attended:

NPTEL Certifications:

Month & Year	Course Name	Performance
Apr 2022	NPTEL DOMAIN: DATA SCIENCE Computer Science and Engineering	
Jul-Oct 2023	Deep Learning for Computer Vision. 12 weeks - 3 credits	Elite (60%)
Jul -Sep 2023	Introduction To Machine Learning – IITKGP 8 weeks - 2 credits	Elite + Gold (90%) Topper - 1%
Jan-Apr 2023	An Introduction to Artificial Intelligence 12 weeks - 3 credits	-
Jul-OCT - 2022	Natural Language Processing 12 weeks - 3 credits	Elite
Jan-March- 2022	Programming, Data Structures And Algorithms Using Python 8 weeks - 2 credits	Elite
Jul-OCT - 2021	Reinforcement Learning 12 weeks - 3 credits	Elite

NPTEL - AICTE Faculty Development Programme:

Sl. No	Name of the Programme
1	NPTEL - AICTE One and half week Faculty Development Programme on Reinforcement Learning .
2	NPTEL - AICTE One week Faculty Development Programme on Programming, Data Structures And Algorithms Using Python.
3	NPTEL - AICTE One and half week Faculty Development Programme on Natural Language Processing.
4	NPTEL - AICTE One and half week Faculty Development Programme on An Introduction to Artificial Intelligence.
5	NPTEL - AICTE One week Faculty Development Programme on Introduction to Machine Learning.
6.	NPTEL - AICTE One and half week Faculty Development Programme on Deep Learning for Computer Vision.

2019 - 2021

Details of Courses/Seminars/Workshops/FDPs/SDPs/Conferences attended:

NPTEL Certifications:

Month & Year	Course Name	Performance
Jan-Apr 2021	Computer Science and Engineering	NPTEL DISCIPLINE STAR
Jan-Apr 2021	Deep Learning 12 weeks - 3 credits	Elite + Sliver (85%)
Jan-Mar 2021	Data Science for Engineers 8 weeks - 2 credits	Elite (74%)
Jan-Feb 2021	Python for Data Science 4 weeks - 1 credit	Elite + Sliver (76%)
Feb-Apr 2020	Multi-Core Computer architecture - Storage and Interconnects 8 weeks - 2 credits	97%
Jan-Apr 2020	Introduction to Machine Learning 12 weeks - 3 credits	Elite + Sliver (82%) Topper - 2%
Aug-Oct 2019	Practical Machine Learning with Tensorflow 8 weeks - 2 credits	Elite (71%)
Jul-Sep 2019	Advanced computer architecture 8 weeks - 2 credits	Elite + Sliver (84%)

NPTEL - AICTE Faculty Development Programme:

Sl. No	Name of the Programme
1	NPTEL - AICTE One week Faculty Development Programme on Advanced Computer Architecture
2	NPTEL - AICTE One week Faculty Development Programme on Practical Machine Learning with Tensorflow.
3	NPTEL - AICTE One and half week Faculty Development Programme on Introduction to Machine Learning
4	NPTEL - AICTE One week Faculty Development Programme on Data Science for Engineers.
5	NPTEL - AICTE One and half week Faculty Development Programme Deep Learning.

TEQIP sponsored and others courses attended:

Sl. No	Name of the Programme	Venue	Period	Days
1	5th Summer School on Artificial Intelligence.	IIIT Hyderabad.	02/08/2021 to 31/08/2021	30
2	IEEE CS Chapter sponsored six days Faculty Development programme on Advances in Artificial Intelligence and Machine Learning.	Dept. of CSE , The Oxford College of Engineering, Bengaluru -68.	26/07/2021 to 31/07/2021	06
3	TEQIP - III Sponsored two days workshop on Entrepreneurship Development , Innovation and Startup	Department of Production Engineering , Government College of Technology , Coimbatore	12/03/2021 To 13/03/2021	02
4	TEQIP- III sponsored E-Training Program on Artificial Intelligence and Machine Learning.	Department of Chemistry and Electrical Engineering. Indian Institute of Technology Indore.	21/12/2020 to 30/12/2020	10
5	TEQIP -III sponsored Quality Improvement Programmes on Introduction to Environmental Engineering.	Indian Institute of Technology Bombay.	15/07/2020 to 24/07/2020	10
6	Industry Connect Hands-on workshop on Internet of Things and Artificial Intelligence	Coimbatore Institute of Technology , Coimbatore -14	05&06 /12/2019	02
7	One Day state level technical seminar on Intellectual Property Rights	Government College of Technology , Coimbatore	27/09/2019	01

National and International Conferences / Workshop attended:

Sl. No	Name of the Conferences	Venue	Period	Days
1	Workshop on MUCS 2021: MULTilingual and Code-Switching ASR Challenges for Low Resource Indian Languages	IIT , Bombay	12/08/2021 to 13/08/2021	02
2	International Virtual Conference on Wearable Technologies & Applications Emerging Trends and Innovations	VIT , Vellore	26/06/2020 to 27/06/2020	02
3	International Conference on Recent Trends in Engineering Technology and Management	Coimbatore Institute of Engineering and Technology, Coimbatore-109.	29/03/2019 to 30/03/2019	02
4.	5th International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET'19)	Karpagam Institute of Technology, Coimbatore - 105	22/03/2019 to 23/03/2019	02

Details of Guest lectures given:

Sl. No	Name of the Programme	Venue	Period	Topic
1	Five day online Faculty Development Programme on Artificial Intelligence and Deep Learning 13-09-2021 to 17 -09-2021	Faculty Training Centre Dept. of ECE, GCT, Coimbatore -13	17/09/2021	Ethical uses of Machine Learning - Myth or Miracle.
2	Guest Lecture	Dept. of CSE, SRM Institute of Science and Technology, Chennai.	03/09/2021	Ethical uses of Machine Learning - Myth or Miracle.
3	Gate Online Classes	Dept. of CSE, GCE,Bargur.		Computer Networks
4	Online Faculty Development Programme on Internet of Things. 11-15 may 2020.	Dept .of ECE,	13/05/2020	Machine Learning and Deep learning

		GCE , Srirangam , Trichy -12.		methods for IoT Security.
5	Two weeks Faculty Development Programme on Machine Learning , 02-03-2020 to -15 -03-2020	Faculty Training Centre GCT, Coimbatore	11/03/2020	Machine Learning using Keras and Tensorflow.
6	TEQIP -III sponsored one week Faculty Development Programme on Cyber Security, 26-08-2019 to 30.08.2019	Dept . of IT , GCT ,Coimbatore -13	29/08/2019	Privacy and Security.

2015 - 2018

TEQIP sponsored courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	TEQIP-II sponsored Faculty Development programme on Distributed Network Algorithms	Indian Institute of Technology , Guwahati, Assam.	27/06/2016 to 02/07/2016	06
2	TEQIP-II sponsored Professional Development Programme on Cyber Security Best Practices	Engineering Staff College of India , Lonavala	24/10/2016 To 26/10/2016	03
3	TEQIP-II sponsored one week Faculty Development programme on Emerging Trends in Pervasive and Mobile computing	Dept. of CSE , GCT, Coimbatore	27/02//2017 to 05/03/2017	07
4	TEQIP-II sponsored one week Faculty Development programme on Building context-aware applications in IOT	Dept. of CSE , GCT, Coimbatore	06/03//2017 to 12/03/2017	07
5	TEQIP-II sponsored Workshop on Online e-procurement.	GCT, Coimbatore	06/04/2018	01

Other courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	One day career Education Conclave on Cognitive Analytics in association with IBM.	Kamaraj College of Engineering and Technology , Virudhunagar	19/04/2017	01

Details of FACULTY DEVELOPMENT PROGRAMMES organized:**TEQIP sponsored Faculty development Programmes Organized:**

Sl. No	Name of the Programme	Venue	Period	Days
1	TEQIP II sponsored one week FDP on Cyber Security	Dept. of CSE, GCT, Coimbatore - 13.	13/03/2017 to 19/03/2017	07

National and International Conferences attended:

Sl. No	Name of the Conferences	Venue	Period	Days
1	International Conference on Advanced Computing and Communication systems.	IEEE, Sri Eshwar College of Engineering ,	22/01/2016 to 23/01/2016	02
2	International Conference on Advances in Robotics, Energy and Network Systems 2017.	GCE, Salem.	09/03/2017 To 10/03/2017	02
3	National Conference on Alternate Energy Technologies-NCAET 2017.	Dept of EEE, GCT, Coimbatore.	24/03/2017	01
4	4 th National Conference on Recent Advances in Computer Science 2017.	Dept of CSE, Sri Krishna College of Engineering and Technology, Coimbatore.	08/04/2017	01
5	National Conference on Information and Communication Technology	Dept of CSE, Sri Ramakrishna Institute of Technology, Coimbatore-641 010	29/04/2017	01
6	International Conference on Advances in Engineering and Technology-ICAET 2018.(A Survey of Techniques for Machine Translations from English to Tamil).	Dept of Mech, Karpagam Academy of Higher Education, Coimbatore-641 021	08/03/2018 to 09/03/2018	02
7	International Conference on Advances in Engineering and Technology-ICAET 2018.(A Dedicated Communication System for the	Dept of Mech, Karpagam Academy of Higher Education, Coimbatore-641 021	08/03/2018 to	02

	Effective Implementation of E-Governance)		09/03/2018	
8	International Conference on Advances in Engineering and Technology-ICAET 2018.(Survey on Congestion Control Frameworks in Data Center Networks)	Dept of Mech, Karpagam Academy of Higher Education, Coimbatore-641 021	08/03/2018 to 09/03/2018	02
9	International Conference on IEEE Technological Innovations in ICT for Agriculture and Rural Development.	Dept of IT, SRM Easwari Engineering College, Chennai-600 089	05/04/2018 to 06/04/2018	02

2011 - 2015

AICTE sponsored courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	AICTE sponsored SDP on Soft computing techniques in Electrical systems and control.	Dept. of EEE, GCT, Coimbatore	11/05/2012 to 22/05/2012	12
2	AICTE sponsored two day National Workshop on Human Centric Data Privacy in Wireless Body Area Networks	Dept. of CSE, GCT, Coimbatore	12/03/2012 to 13/03/2013	02

TEQIP sponsored courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	TEQIP sponsored Faculty Development programme on Information retrieval and data mining techniques	Dept. of CSE & IT, GCT, Coimbatore	08/08/2012 to 14/08/2012	07
2	TEQIP sponsored Faculty Development programme on Software Defined Networks	Dept. of CSE & IT, GCT, Coimbatore	11/10/2012 to 17/10/2012	07
3	TEQIP sponsored seminar on Nurturing Innovative Ideas and Global level IPR Communication	Dept. of CSE & IT, GCT, Coimbatore	19/12/2012	01

4	TEQIP sponsored one day workshop on Android Application Development	Dept. of CSE, GCT, Coimbatore	27/02/2013	01
---	---	-------------------------------	------------	----

Other courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	DRDO sponsored Two day workshop on Research Directions and Security Issues in Cloud Computing	Dept. of CSE & IT, GCT, Coimbatore	22/03/2013 to 23/03/2013	02
2	NPTEL workshop on Technology Enhanced Learning	IIT Madras	09/04/2013	01

Details of FACULTY DEVELOPMENT PROGRAMMES organized:

TEQIP sponsored Faculty development Programmes Organized:

Sl. No	Name of the Programme	Venue	Period	Days
1	TEQIP II sponsored one week FDP on NS-3 Network Simulator	Dept. of CSE, GCT, Coimbatore - 13.	27/03/2013 to 02/04/2013	07
2	TEQIP II sponsored one week Workshop on Computer Skill Development for Technical Staff of GCT	Dept. of CSE, GCT, Coimbatore - 13.	17/11/2014 to 24/11/2014	07

AICTE sponsored Faculty Development Programmes:

Sl. No	Name of the Programme	Venue	Period	Days
1	AICTE sponsored Two week FDP on Research issues in Named Data Networking	Dept. of CSE, GCT, Coimbatore - 13.	17/06/2013 to 30/06/2013	14

National and International Conferences attended:

Sl. No	Name of the Conferences	Venue	Period	Days
1	International Conference on Advanced Computing , Networking and Security , ADCONS -11	Dept of CSE, NIT Karnataka ,Surathkal Mangalore – 575 025.	18/12/2011 to 18/12/2011	03

2006 – 2011**AICTE sponsored courses:**

Sl. No	Name of the Programme	Venue	Period	Days
1	AICTE Sponsored Two week Staff Development Programme on Real Time System	Dept. of CSE, Muthayammal Engineering College, Rasipuram – 637 408	22/01/2007 to 02/02/2007	14
2	AICTE Sponsored short –term course under QIP on Wireless Security	Centre for Continuing Education Indian Institute of Science (IISc) , Bangalore -560 012.	09/03/2009 to 13/03/2009	05
3	AICTE Sponsored QIP Summer School on Web Collaboration and Technology	Dept. of IT, B.S.A Crescent Engineering College, Chennai	18/05/2009 to 31/05/2009	14
4	AICTE Sponsored Two week Staff Development Programme on Current Trends in Information Retrieval with Research Perspective	Dept. of IT PSG College of Technology, Coimbatore -641 004	09/05/2011 to 21/05/2011	14

TEQIP sponsored courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	TEQIP sponsored Faculty Development programme on Optimization Techniques.	Dept. of CIVIL, GCE, Tirunelveli -627 007.	02/4/2007 to 04/4/2007	03
2	TEQIP sponsored two day workshop on soft skills in Instrumentation	Dept. of EEE, GCE, Tirunelveli -627 007	06/08/2007 to 07/08/2007	02

Other courses:

Sl. No	Name of the Programme	Venue	Period	Days
1	TECHLABS & National Instruments , Bangalore sponsored workshop on Mechatronics lab using NI LabView	Dept of MECH, Kongu Engineerig College , Perundurai	07/05/2007 to 08/05/2007	02
2	ISTE sponsored one week workshop on Embedded Systems and Control	Dept of EEE, GCE , Bargur -635 104.	05/12/2007 to 11/12/2007	07
3	Two days Orientation Programme for research scholars	Centre for Research, Anna University , Coimbatore	07/06/2008 to 08/06/2008	02
4	Workshop on Mobile Computing	Dept of CSE, Periyar University , Salem -636 011	30/08/2008	01
5	Workshop on Mobile Computing and Web Services	Network and Information Security Division , VIT University , Velloe - 632 014	19/03/2011	01
6	Anna university Faculty Development Training Programme on Digital Image Processing	Dept. of CSE , GCT Coimbatore -13	28/11/2011 to 04/12/2011	07

National and International Conferences attended:

Sl. No	Name of the Conferences	Venue	Period	Days
1	First National Conference on High Performance Computing, Vision'05	Dept. of CSE, GCE, Tirunelveli -007	08/04/2005	01
2	National Conference on Emerging Trends in CSE, ETICSE-06	Dept. of CSE , K.S.R College of Technology , Tiruchengode	06/01/2006 to 07/01/2006	02
3	National Conference on Network Security	Erode segunthar Engineering College, Erode	29/01/2007 to 31/01/2007	03

4	National Conference on Modeling and Simulation –CITICOMS 2007	Dept of Chemical Engineering, CIT , Coimbatore -014.	27/08/2007 to 29/08/2007	03
5	IEEE International Advance Computing Conference – IACC -09	Thapar University ,Patiala	06/03/2009 to 07/03/2009	02
6	Third International Conference on Network Security an Applications, CNSA 2010	The Part Hotels, Chennai	23/07/2010 to 25/07/2010	03
7	International Conference on Advanced Computing , Networking and Security , ADCONS -11	Dept of CSE, NIT Karnataka ,Surathkal Mangalore – 575 025.	18/12/2011 to 18/12/2011	03

Details of Guest lectures given:

Sl. No	Name of the Programme	Venue	Period	Topic
1	One week FDP on Design and Analysis of Algorithms	Dept. of CSE, GCE, Bargur.	11/01/2013	Graph Traversals and Sorting Algorithms
2	TEQIP sponsored one week FDP on Cryptography : Methodology and Implementation	Dept. of CSE, GCE, Bargur.	23/03/2013	Key Management
3	Workshop on A Compendium in High Speed and Mobile Networks, HSMN'13.	Dept. of ECE, Anna University , Regional Centre ,trichy	07/08/2013	NS-3 Network Simulator Tutorial
4	National Level Technical symposium KANINI FEST 'YBM	Dept. of CSE, Erode Sengunthar Engineering College, Erode.	27/09/2013	Jury for National Level Technical symposium KANINI FEST 'YBM
5	TEQIP –II Sponsored One week Faculty Development Programme on Wireless Sensor Networks	Dept. of ECE, PSG College of Technology, Coimbatore-641 004	18/11/2013	NS-3 Network Simulator Tutorial

6	AICTE Sponsored Two week FDP on Pedagogy in Wireless Communication Technologies	Dept. of ECE, M.A.M College of Engineering, Trichy	27/11/2013	NS-3 Network Simulator
7	AICTE Sponsored Two week FDP on Research Issues in Cloud Computing	Dept. of CSE, GCT, Coimbatore -13.	29/11/2013	Security and Privacy Issues in Cloud Computing
8	One day Workshop on NS-3	Dept. of CSE, Karunya University	14/12/2013	NS-3 Network Simulator
9	One week FDP on Distributed Systems.	Dept. of CSE, University college of Engg , pattukottai-641701	06/12/2015.	NS-3 Network Simulator
10	One day Workshop on ECC	Dept. of CSE, Kumaraguru College of Technology, Coimbatore	25-02-2016	A Tutorial on Elliptic Curve Cryptography (ECC)
11	Resource person for syllabus drafting -workshop	School Education Department Govt. of Tamil Nadu	20/09/2017 to 23.09.2017	Computer science - Resource person for syllabus drafting
12	Seven day FDTP on "IT6601 - Mobile computing "	Dept of CSE, Government College of Engineering ,Bargur	23.11.2017	Mobile ad Hoc Networks, Routing Protocols , VANETs , Security.

Details of students Guidance (M.E/ Ph.D.) :

- No. of PG Students - 20

Specialization : **Computer Science and Engineering**

Thesis title : **Region-based Distributed Group Key Agreement Protocols for Secure Group Communication over Ad Hoc Networks .**