



PROF. DR. K. GOPAKUMAR

Senior Academic Leader | Former Principal | Dean Academics | Director Academics | IQAC Coordinator & NBA Coordinator | Former HoD (ECE)

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Google Scholar:

<https://scholar.google.com/citations?user=INqVpqwAAAAJ&hl=en>

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Academic Qualifications

- **Ph.D.** in Electronics & Communication Engineering (*Nonlinear Systems / Chaos Applications*) - Kerala University, 2012
 - **M.Tech** in Applied Electronics & Instrumentation (Kerala University, 1995)
 - **B.Tech** in Electronics & Communication Engineering – (Kerala University, 1985)
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Core Competencies

- NBA/NAAC Accreditation & IQAC Operations
- Academic Leadership & Administration
- Curriculum Design & OBE Implementation

- Research Promotion & Faculty Development
 - Academic Audit & Examination Reforms
 - Strategic Planning & Policy Development
 - Student Success & Outcome Monitoring
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Teaching Experience

- Handled UG, PG, and Ph.D. coursework with focus on outcome-based pedagogy and industry relevance.
 - Total Teaching Experience: **More than 30 years**
 - Served as Professor / Associate Professor / Assistant Professor in reputed engineering institutions
 - Taught core ECE subjects including:
 - Electronic Circuits
 - Analog & Digital Signal Processing
 - Microprocessors and Microcontrollers
 - Analog and Digital Electronics
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Administrative Experience

- **Principal** – *Mohandas College of Engineering and Technology*
2024 September to 2025 February
 - Overall academic, administrative, and strategic leadership
 - Institutional development and quality enhancement initiatives
- **Dean Academics & IQAC Coordinator** - *TKM Institute of Technology*
2023 June to 2024 September
 - NAAC/NBA documentation and compliance
 - Successfully coordinated NBA accreditation for ECE, CSE, and FT programs with positive peer team feedback
 - Implementation of quality assurance processes
- **IQAC Coordinator** - *APJ Abdul Kalam Technological University*
2020 June to 2023 June
 - Led IQAC functioning, AQAR preparation, internal audits, and quality improvement initiatives.
 - Implemented OBE across affiliated colleges with complete CO–PO–PSO mapping.

- Coordinated academic review meetings, data collection systems, and continuous improvement workflows.
- **Director – Academics** - *APJ Abdul Kalam Technological University*
2018 November to 2019 November
 - Academic planning and curriculum implementation
 - Faculty performance monitoring and mentoring
- **Dean Academics & Head of the Department (ECE)** – *TKM College of Engineering* *2015 June to 2018 July*
 - Designed and implemented academic policies, regulations, and quality frameworks
 - Headed academic councils, BOS/BOE committees, and academic advisory boards
 - Established systems for continuous academic monitoring and improvement
 - Successfully coordinated NBA/NAAC accreditation processes for ECE.
 - NBA/NAAC peer team visit completed under my leadership.
- **Head of the Department (ECE)** – *Mohandas College of Engineering and Technology* *2002 October to 2006 October*
 - Played a key role during the formative years of the department
 - Introduced modern laboratories, project-based learning, and academic monitoring.
 - Established students wings of professional bodies such as IEEE, ISF and ISTE

Research & Publications

- Active researcher with sustained publications in SCI/Scopus indexed journals and interdisciplinary domains.
- h-index 14, i10-index 22, citations 735, Journal publications 36
- Guided **6 Ph.D. graduates (awarded)**
- Books Published 5
- Guided UG/PG student projects and promoted innovation culture.

(Details appended as [Annexure A](#))

Faculty Development Programs / Workshops

- Organized and participated in **Faculty Development Programs (FDPs)**

(Details appended as [Annexure B](#))

Professional Memberships

- Life Member ISTE, LM 3764
 - Fellow of IETE, F 231911
 - Fellow of IE(India), F 119638-5
 - Reviewer/Member in various academic bodies
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Academic Contributions

- Extensive experience in organizing national-level Faculty Development Programs (FDPs), workshops, and international conferences ([details in Annexure B](#)).
 - Curriculum development and syllabus framing
 - Board of Studies / Academic Council participation
 - Mentoring of faculty and students
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Special Achievements

- Successfully completed **NBA accreditation visits for ECE, CSE, and FT programs.**
 - Implemented **Outcome-Based Education (OBE) across programs** through structured and measurable processes.
 - Developed **B.Tech curricula for multiple disciplines** in alignment with university and accreditation requirements.
 - Instrumental in **strengthening academic systems** and quality processes.
 - Led multiple academic reforms and quality initiatives at institutional level.
 - Provided **leadership** in institutional turnaround and academic upliftment.
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Personal Details

- Date of Birth: 30/07/1963
 - Gender: Male
 - Nationality: Indian
 - Languages Known: English, Malayalam, Hindi
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Place: Trivandrum

Date: 11/07/2026

Dr K Gopakumar

(Sd)

ANNEXURES

Annexure A: RESEARCH AND PUBLICATIONS

Ph.Ds Completed				
Sl.No	Name of Research Scholar	Title of Thesis	University	Year of award of Ph.D
1	JISU ELSA JACOB	Studies on EEG-Based Diagnosis of Encephalopathy Using Chaotic and Other Nonlinear Analysis	Kerala University	Oct 2020
2	FARSANA F J	Studies on Speech Cryptosystems Based on Chaotic Principle	Kerala University	Oct 2021
3	ASWATHY G P	Cognitive Radio Network with Wideband Spectrum Sensing and Reliable Data Transmission	APJ Abdul Kalam Technological University	Oct 2021
4	LANI RACHEL MATHEW	Investigation into Enhancement and Reconstruction of Speech for Speech-Impaired Persons	Kerala University	Aug 2022
5	SUNI S S	A Multimodal Feature Based Gesture Recognition System	Kerala University	Jan 2023
6	SOUMYA BABU H	Studies on Stability Analysis and Circuit Realizations of Various Iterated Maps	Kerala University	June 2025

PUBLICATIONS

International Journals

K. Gopakumar, B. Premlet and K.G. Gopchandran, Inducing Chaos in Wien-bridge Oscillator by Nonlinear Composite Devices, International Journal of Electronics Engineering Research, 2 (4), 2010, pp. 489-496.

K. Gopakumar, B. Premlet and K.G. Gopchandran , Implementation of Chua's Circuit Using Simulated Inductance, Int. J of Electronics, Taylor & Francis, 98 (5), 2011, pp. 667-677.

K. Gopakumar, B. Premlet and K.G. Gopchandran, Chua's Oscillator in Integrated Circuit Form with Inbuilt Control Option, Journal of Circuits and Systems ,World Scientific, 20 (8), 2011, pp. 1591-1604.

K. Gopakumar, B. Premlet and K.G. Gopchandran, A Review of Complex Behaviour of a Driven Diode Resonator, International Journal of Physics and Applications, 3(1), 2011, pp. 105-115.

K. Gopakumar and Lienu Udayakumar, Secure Communication Using Chaos Synchronization Principle, International Journal of Applied Engineering Research, 8(3), 2013, pp. 287-294

K. Gopakumar and Rija M. Raju, A Novel Watermarking Technique Based on Chaos Theory, International Journal of Applied Engineering Research, 8(9), 2013, pp. 1081-1089.

Jisu Elsa Jacob, Vijith Vijayakumar, Sreelatha, Thomas Iype, **K. Gopakumar** & Doris George, Diagnosis of epilepsy from interictal EEGs based on chaotic and wavelet Transformation, Analog Integrated Circuits and Signal Processing, Springer, 89(1), pp 131-138, 2016.

Farsana F. J., **K. Gopakumar**, "A Novel Approach for Speech Encryption: Zaslavsky Map as Pseudo Random Number Generator, "Procedia computer science, Elsevier, vol 93, pp. 816-823, 2016.

Jacob Jisu Elsa, **K. Gopakumar**, Ajith Cherian, Thomas Iype. "Diagnosis of encephalopathy based on energies of EEG sub bands using Discrete Wavelet Transform and Support Vector Machine", Neurology Research International, Article ID 1613456, Hindawi, 2018.

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J. E. Jacob, **K. Gopakumar**, T. Iype, and A. Cherian, "Automated Diagnosis of Encephalopathy Based on Empirical Mode EEG Decomposition", Neurophysiology, Springer, 50(4), pp. 278-285, 2018.

Jisu Elsa Jacob, **K. Gopakumar** , Ajith Cherian, Thomas Iype, " Application of fractal dimension for EEG based diagnosis of encephalopathy" Analog Integrated Circuits and Signal Processing, Springer US, 100(2), pp. 429-436, 2019.

G. P. Aswathy ; **K. Gopakumar**, "Sub-Nyquist wideband spectrum sensing techniques for cognitive radio: A review and proposed techniques", AEU-Int J of Electronics and Communications, Elsevier, 104(5) pp. 44-57, 2019.

Jisu Elsa Jacob, **K. Gopakumar** "EEG Entropies as Estimators for the Diagnosis of Encephalopathy." Analog Integrated Circuits and Signal Processing, Springer, 101, pp. 463– 474, 2019.

Farsana, F. J., Devi, V.R., **K. Gopakumar**, An Audio Encryption Scheme Based on Fast Walsh Hadamard Transform and Mixed Chaotic Keystreams, Applied Computing and Informatics, Elsevier, <https://doi.org/10.1016/j.aci.2019.10.001>, 2019

Aswathy G. P., **K. Gopakumar** and Imthias Ahamed T. P. , "Parallel concatenated Gallager codes for reliable data transmission in cognitive radio networks," Physical Communication, vol. 37, Dec. 2019.

Farsana F. J., **K. Gopakumar**, "Speech Encryption Algorithm Based on Non-Orthogonal Quantum State with Hyperchaotic Keystreams" Advances in mathematical physics, Article ID 8050934, Hindawi, 2020.

S.S. Suni, **K. Gopakumar**, "Fusing pyramid histogram of gradients and optical flow for Hand gesture recognition", International Journal of Computational Vision and Robotics, Inderscience, 10(5), pp. 449-464. 2020. DOI: 10.1504/IJCVR.2020.109396.

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Suni S S, **K. Gopakumar**, "Dense SIFT-Flow based Architecture for Recognizing Hand Gestures", Advances in Science, Technology and Engineering Systems Journal, ASTES Publishers Volume 5, Issue 5, Page No 944-954, 2020.

Suni S S, **K Gopakumar**, "Extraction of Multimodal features from Depth and RGB images for Recognising Hand Gestures", Journal of Future Robot Life, IOS Press, pp. 1-21, 2020.

Lani Rachel Mathew, **K. Gopakumar**, "Evaluation of Speech Enhancement algorithms applied to Electrolaryngeal Speech Degraded by Noise", J Applied Acoustics, Elsevier, 174, March 2021

Soumya Babu H, **K. Gopakumar**, "Electronic circuit realisation of a chaotic pseudo random bit generator", ICTACT Journal on Microelectronics, Vol. 7, No. 2, pp. 1121-1126, July 2021

Jisu Elsa Jacob, Sreejith Chandrasekharan, **K Gopakumar**, Ajith Cherian, Thomas Iype, "Effect of combining features generated through non-linear analysis and wavelet transform of EEG signals for the diagnosis of encephalopathy", *Neuroscience Letters*, Elsevier, 765(2021), 136269

Suni S S, **K Gopakumar** "Hand Gesture Recognizing Model Using Optimized Capsule Neural Network", Traitement du Signal, June 2022, Vol. 39 Issue 3, p1039-1050.

Soumya Babu H, Dr. Vijayakumar. N, **K. Gopakumar**, "Discrete Wavelet Transform based Cryptosystem", International Journal on Recent and Innovation Trends in Computing and Communication, Auricle Global Society of Education and Research, Vol. 10, NO. 11, pp. 47-52, Nov 2022

Soumya Babu H, Dr. Vijayakumar. N, **K. Gopakumar**, "A Chaotic Pulse Train Generator Based on Henon Map", Intelligent Automation and Soft Computing, Tech Science Press Publishers, pp. 1197-1207, 2023

International Conferences

K.G. Gopchandran, **K. Gopakumar** and B. Premlet, Information Encryption and Decryption Using Hyperchaotic Systems in Delayed Nonlinear Feedback Systems, IEEE proceedings: International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, DOI: 10.1109/ICUMT.2010.5676533, PP. 855-859, 2010.

K. Gopakumar, B. Premlet and K.G. Gopchandran, Effect of Nonlinearity in Sinusoidal Oscillators, Presented at the International conference on VLSI, Communication, Computation and Security (ICVCCS), Karunya University, Coimbatore, 2010.

K. Gopakumar, K.G. Gopchandran and B. Premlet, Rank 1 Chaos in Chua's Circuit with Cubic Nonlinearity, Presented at the International Conference on Computational Engineering, Practices & Techniques (iConCEPT), MES College of Engineering, Malappuram, 2010.

K. Gopakumar, K.G. Gopchandran and B. Premlet, "Experimental Study of Rank 1 Chaos in Chua's Oscillator with Cubic Nonlinearity", Springer proceedings: Second International Conference on Advances in Communication, Network, and Computing 2011, doi: 10.1007/978-3-642-19542-6_65, ISBN: 978-3-642-19541-9, pp. 351-355

K. Gopakumar, B. Premlet and K.G. Gopchandran, Chaotic Optical Communication Using Chaos Synchronization Principle, Presented at the 6th National Conference on Nonlinear Systems and Dynamics (NCNSD), Bharathidasan University, Tiruchirapalli, 2011.
Ranimol, **K.Gopakumar**, Spatiotemporal Chaos in Globally Coupled NCA Map Lattices using 3-D Arnold Cat Map for Digital Image Encryption, Proceedings of IEEE international Conference ICCSC, DOI: 10.1109/COMPSC.2014.7032648 pp. 203-208, Dec 2014.

Rija M Raju, **K.Gopakumar**, An image authentication technique based on cross chaotic map, Proceedings of IEEE international Conference ICCSC, DOI: 10.1109/COMPSC.2014.7032647, pp. 197-202, Dec 2014.

Suni S S, **K.Gopakumar**, A realtime decision support system using head nod and shake, Proceedings of IEEE international Conference on Circuit Power and Computing Technologies ICCPCT, DOI: 10.1109/ICCPCT.2016.7530336, March 2016.

Farsana F J, **K.Gopakumar**, Speech encryption based on four-dimensional hyperchaotic system, Proceedings of IEEE international Conference on Data Mining and Advanced Computing SAPIENCE, DOI: 10.1109/SAPIENCE.2016.7684153, March 2016.

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V. S. Vijith ; Jisu Elsa Jacob ; Thomas Iype ; **K Gopakumar** ; Doris George Yohannan, Epileptic seizure detection using non linear analysis of EEG, Proceedings of IEEE International Conference on Inventive Computation Technologies (ICICT), DOI: 10.1109/INVENTIVE.2016.7830193, pp. 1-6, Aug 2016.

Athira Vijay, **K.Gopakumar**, A Locally Optimal Neyman –Pearson Detector Based Wide Band Spectrum Sensing Method For OFDM Based Cognitive Radio In Weakly Correlated Non Guassian Noise, Proceedings by McGraw Hill for the International Conference on Signal and Speech Processing, Sept 2016.

F. J. Farsana, **K. Gopakumar** "Speech Encryption Based on Two Dimensional Tinkerbell Maps." Proceedings of Mc-Graw Hill education second International Conference on Signals and Speech Processing, September 2016.

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Ameena B, **K.Gopakumar**, Wideband spectrum sensing using Multi Stage Weiner Filter, Proceedings of IEEE Annual Conference on Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), DOI: 10.1109/UEMCON.2016.7777871, Oct 2016.

F. J. Farsana ; **K. Gopakumar**, Private key encryption of speech signal based on three dimensional chaotic map, Proceedings of IEEE International Conference on Communication and Signal Processing (ICCSP), DOI: 10.1109/ICCSP.2017.8286804, April 2017.

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Amritha Vijayan ; Bipil Mary Mathai ; Karthik Valsalan ; Riyanka Raji Johnson ; Lani Rachel Mathew ; **K. Gopakumar**, Throat microphone speech recognition using mfcc, IEEE International Conference on Networks & Advances in Computational Technologies (NetACT), DOI: 10.1109/NETACT.2017.8076802, July 2017.

R. P. Haripriya ; Lani Rachel Mathew ; **K. Gopakumar**, Performance evaluation of dwt based speech enhancement, IEEE International Conference on Networks & Advances in Computational Technologies (NetACT), DOI: 10.1109/NETACT.2017.8076812, July 2017.

Devi V.R., F.J. Farsana, **K. Gopakumar**. "Hyperchaos generated from 3D Chaotic System using PI controller", International Conference on Functional Materials, Characterization, Solid State Physics, Power, Thermal and Combustion Energy, AIP Conference Proceedings 1859, 020030 (2017) <https://doi.org/10.1063/1.4990183>, 2017.

P Arathi Sankar ; **K Gopakumar**, Sparse Representation of Sensory Data and Detection of Dead nodes in WSNs, Proceedings of IEEE International Conference on Trends in Electronics and Informatics (ICOEI), DOI: 10.1109/ICOEI.2018.8553870, May 2018.

G.P. Aswathy G P ; **K Gopakumar**, Wideband Spectrum Sensing using Modulated Wideband Converter by Revised Orthogonal Matching Pursuit, Proceedings of IEEE International Conference on Control, Power, Communication and Computing Technologies ICCPCCT, DOI: 10.1109/ICCPCCT.2018.8574293, pp. 179 – 184, March 2018.

G. P. Aswathy ; **K. Gopakumar**, Niyas K Haneefa, Performance Comparison of Parallel Concatenated Gallager Codes with Different Types of Interleavers, Proceedings of IEEE International Conference on Control, Communication, and Computing (IC4), DOI: 10.1109/CETIC4.2018.8531011, pp. 210 – 215, July 2018.

Farsana F J ; **K. Gopakumar**, Key Encapsulation Mechanism Based on RSA Public Key Distribution Algorithm in Modified Lorenz Hyperchaotic System, Proceedings of IEEE International CET Conference on Control, Communication, and Computing (IC4), DOI: 10.1109/CETIC4.2018.8530932, July 2018.

Jisu Elsa Jacob and **K. Gopakumar**, "Support Vector Machine based Classification for Epileptic Seizure Detection using wavelet features." In 2018 International Conference on Computing Methodologies and Communication (ICCMC), IEEE, 2018.

Jisu Elsa Jacob ; **K Gopakumar**, A Review of Chaotic Analysis of EEG in Neurological Diseases, Proceedings of IEEE International Conference on Control, Communication, and Computing (IC4), DOI: 10.1109/CETIC4.2018.8530960, July 2018.

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Arya Surendran, Jisu Elsa Jacob and **K. Gopakumar**, "A review of Various Signal Processing Techniques for EEG Analysis." In 2019 International Conference on Intelligent Computing and Control Systems (ICICCS), IEEE, 2019.

Suni S S, **K Gopakumar**, "A Multi-Feature Framework for Recognizing Hand Gestures", Proceedings of Springer International Conference on Advances in Electrical and Computer Technologies ICAECT 2019.

Aswathy G. P, **K. Gopakumar** and Imthias Ahamed T. P, “Parallel Concatenated Gallager Code with Single Encoder for Cognitive Radio Applications,” IEEE 9th Int. Conference on Advances in Computing and Communications, pp. 86-91, 2019.

Suni S S, **K.Gopakumar**, Fusing Multimodal features for Recognizing Hand Gestures, Proceedings of IEEE international Conference on Advanced Computational and Communication Paradigms (ICACCP), DOI: 10.1109/ICACCP.2019.8882910, Feb 2019.

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Arya Surendran, Jisu Elsa Jacob and **K. Gopakumar**, "Analysis of EEG using Variational Mode Decomposition Method for Diagnosis of Epilepsy." AIP proceedings of International Conference on Microelectronics, Signals and Systems, 2222(1), pp. 030016-1 to 030016-6, doi: <https://doi.org/10.1063/5.0004219>, 2020.

Aswathy G. P, **K. Gopakumar** and Imthias Ahamed T. P, “Wideband Spectrum Sensing using Multicoset Sampling and Extended Orthogonal Matching Pursuit,” AIP proceedings of International Conference on Microelectronics, Signals and Systems, 2222(1), 30007-1 to 030007-7, doi: <https://doi.org/10.1063/5.0004051>, 2020.

H. Soumya Babu, **K.Gopakumar**, “Chaotic secure communication in multiple access environment using iterated maps”, AIP proceedings of International Conference on Microelectronics, Signals and Systems, 2222(1), 030020-1 to 030020-6, doi: <https://doi.org/10.1063/5.0004254>, 2020

Soumya Babu H, Dr. Vijayakumar. N and **K. Gopakumar**, “Image Encryption and Decryption Using Chaotic Bimodal Quadratic Map”, Lecture Notes in Electrical Engineering (LNEE), Third International Conference on Electrical and Computer Technologies, Springer, 2021.

Books Published

Sl. No.	Title of Book	Name of Publisher	Year
1.	Introduction to Electronics and Communication	Phasor Books, Kollam	2002
2.	Design and Analysis of Electronic Circuits	Phasor Books, Kollam	2003
3.	Basics of Electrical and Electronics Engineering	Owl Books, Trivandrum ISBN: 978 93 85666 94 0	2021
4.	Logic System Design	Owl Books, Trivandrum ISBN: 978 93 85666 83 4	2021
5.	Analysis and Design of Electronic Circuits	Owl Books ISBN: 978 93 92321 01 6	2023

Annexure B: CONFERENCES, FDPs/WORKSHOPS ORGANIZED/ATTENDED**Organized**

Conference /FDP	Title	Role	Date
Faculty Development Programme	Soft Computing	Coordinator	4/11/13 to 08/11/13
Faculty Development Programme	Advanced Digital Signal processing	Coordinator	5/6/14 to 10/6/14
International Conference	First Int. conference on Signal and Speech Proc.	Organizing Secretary	21/8/14 to 23/8/14
TEQIP II sponsored FDP	Biomedical Signal & Image Proc.	Coordinator	21/07 to 27/07/16
International Conference	Second Int. conference on Signal and Speech Proc.	Organizing Convenor	8/9/16 to 10/09/16
Workshop	Curriculum Development	Coordinator	06/04/19
Workshop	Outcome Based Education	Coordinator	07/06/19
Workshop	Quality Enhancement in Educational Institutions	Coordinator	21/10/21
Workshop	Assessment Procedures	Coordinator	17/05/22
Training Programme	Induction Training for Young Teachers	Coordinator	19/09/22 to 24/09/22
Staff Training Programme	Office Procedures	Coordinator	Feb 2023

Attended

Programme	Title	Venue	Period
DTE sponsored STTP	Recent Trends in Audio and Speech Processing	RIT, Kottayam	21/11 to 26/11/2011
DTE sponsored STTP	Green Technology	RIT, Kottayam	10/12 to 15/12/2012
AICTE sponsored FDP	Soft Computing Tech. in Engg Appn.	TKMCE, Kollam	17/06 to 30/06/2013
Mgt. Dvpt. Programme	Timeless Leadership	IIM, Kozhikode	27/11 to 29/11/2013
TEQIP II sponsored FDP	Image Processing With Matlab	CoE Kidangoor	10/11 to 14/11/2014
TEQIP II sponsoredSem	Wireless Communication	TKMCE, Kollam	17/03 to 19/03/2015
Workshop	OBE	CoE Kidangoor	10/12 to 12/12/15
TEQIP II sponsored FDP	Advanced Comp. Arch.	CoE, Adoor	19/12 to 21/12/16
Training Programme	Solar PV Power Plants for Field Functionaries	ANERT & TKMCE	11/01 to 12/01/17
TEQIP II sponsored FDP	Biomedical Instr. and Signal Processing	TKMCE, Kollam	06/01 to 11/01/2020