

Detailed Academic CV

Name : **Dr. J.T. Devaraju**
Qualification : M.Sc, Ph.D, UGC-NET
DATE OF BIRTH : 21-10-1972
Designation : **Registrar (Evaluation), Bangalore University,**
Professor, Dept. of Electronic Science
Teaching Experience : 26 years
Research Experience : 24 years
Contact details : Email: devaraju@bub.ernet.in,
devaraju@gmail.com



Positions held :

1. **Serving as a Registrar (Evaluation), Bangalore University, Bangalore, from 13.03.2020**
2. Professor-In charge, University Instrumentation Centre, Bangalore University since July 2016.
3. Served as a Chairman Dept. of Electronic Science from 7.10.2014 to 6.10.2016, 1.10.2008 to 30.9.2010 and 7.10.2018 to 15.8.2020
4. Served as Director, MOOC's hosted by SWAYAM, Bangalore University till October 2020
5. Coordinator and custodian, Scanning unit, Digitization of UG valuation of II semester May/June 2019 Examination of Bangalore University. Responsible for implementing Digital valuation successfully first time at Bangalore University.

Courses Taught :

C++ programming, Network Analysis, Analog & Digital Electronics, Communication, Control system, Embedded systems, Microprocessors & Microcontrollers.

Areas of Specialization:

Communication, Digital Electronics, Microprocessors & Microcontrollers and Embedded systems

Research Areas:

WiMAX, Wireless Sensor Networks, LTE and Chalcogenide Amorphous Semiconductors.

Research output:

1. Ph.D. Guided	08
2. No. Ph.D. Students	04
3. M.Phil. Guided	08
4. M. Tech Projects Guided	11
5. Publications	108

Membership of Authorities of the University:

1. Member of the syndicate, Bangalore University, Bangalore, from 13.03.2020
2. Member of the Academic Council, Bangalore University, Bangalore, from 13.03.2020
3. Member of the Finance Committee, Bangalore University, Bangalore, from 13.03.2020
4. Member of the Central Purchase Committee, Bangalore University, Bangalore, from 13.03.2020

UGC Committee membership:

1. Member Expert Committee constituted by **University Grant Commission** for coordinating the development of model curricula for under graduate courses under the Choice Based Credit System.

Selection Committee membership:

1. Subject Expert, Selection committee for appointment of Assistant Professor/ Teaching Assistant in Computer science and Electronics (February 2019), IIIT, Surat, Gujarat.
2. Subject Expert, Screening cum Evaluation committee for Promotion under Career Advancement Scheme (CAS), University of Mysore, Mysore, May-2018, December 2020.
3. Subject Expert, Screening cum Evaluation committee for Promotion under Career Advancement Scheme (CAS), Tumkur University, Tumkur, March-2017
4. Subject Expert, Selection committee for appointment of Associate Professor and Assistant Professor in Electronics (September 2016), **Shivaji University, Kolhapur**, Maharashtra.

Expert/Advisory Committee membership

1. Expert Member, Technical Committee, Bangalore University, Bangalore.
2. Expert Member, Examination Reformation Committee, Bangalore University, Bangalore.
3. Expert Member, Advisory committee for purchase of ICT infrastructure for Bengaluru North University.
4. Expert Member, Scrutiny committee to scrutinize the applications of teaching post, Davangere University, Davangere, April-2017.
5. Expert Member, Screening committee to scrutinize the applications for various position under Career Advancement Scheme (CAS), Tumkur University, Tumkur, Januray-2017
6. Expert Member, Technical committee for procurement & installation of CCTV systems to district prisons in Karnataka, constituted by DG of Police and IG of Prisons, Prisons Department, Government of Karnataka, during May-2016.
7. Member Subject expert committee for KSET examinations (Electronic Science) 2014 and 2015
8. Served as a Member, expert committee to recognize Dept. of Electronics and Communication, SJBIT, Kengeri, Bangalore, as a research Centre for Kuvempu University.

9. Served as a Member, expert committee to recognize Dept. of Electronics, SJC Research Foundation, Chickballapur, as a research centre for Kuvempu University.
10. Served as a Member, expert committee to recognize Dept. of Electronics, CIT, Gubbi, Tumkur as a research centre for Kuvempu University.
11. Served as member, expert committee to oversee PG admission process for the year 2008-09 and 2009-10.
12. Served as a Member, expert committee for the renewal of recognition of Dept. of Electronics, RV Centre for Cognitive Technologies, Bangalore as a research centre for Kuvempu University.

Local Inquiry Committee Chairman/Member:

1. Chairman Local Inquiry Committee, Bengaluru North University, Kolar for the year 2018-19.
2. Member Local Inquiry Committee, Bengaluru Central University, Bengaluru for the 2018-19
3. Member Local Inquiry Committee, Davangere University, Davangere for the year 2018-19.
4. Chairman Local Inquiry Committee, Davangere University, Davangere for the year 2017-18.
5. Member Local Inquiry Committee, Bangalore University for the year 2015-16, 2017-18 and 2018-19

Chairman Academic Bodies:

1. Chairman Board of Studies in Electronic science (PG/UG), Bengaluru Central University, Central college campus, Bangalore.
2. Chairman Board of Studies in Electronic science (PG/UG), Bengaluru North University, Kolar for the years 2018-19
3. Chairman Board of Studies in Electronic science (PG/UG), Bangalore university for the years 2008-10, 2014-16 and 2018-20
4. Chairman Board of examination in Electronic science (PG), Bangalore university for the years 2002-03, 2004-05, 2006-07, 2008-09, 2012-13 and 2015-16
5. Chairman Board of examination in Electronic (PG), Karnataka State Women's University, Bijapur, 2014-15

Member Academic Bodies:

1. Member faculty of science, Bangalore University for the duration 1998-2003, 2007-09, 2009-11, 2012-14, 2014-16, 2016-18 and 2018-20
2. Member Governing council, Yoga Study center, Rajajinagar, Bangalore
3. Member Governing council Om Prabha First Grade College, Magadi main Road, Bangalore
4. Member Governing council Acharya Women's First Grade College, Gowribidanur
5. Member Governing council Oceanik college of higher education, Devinagar, Bangalore.
6. Member Governing council Padma College of Management & Science, Basaveshwaranagar, Bangalore
7. Member Governing council AES National College, Gowribidanur

Doctoral Committee:

1. Member Doctoral Committee, Kuvempu University, Shankaragatta, 2015-17.
2. Member Doctoral Committee, Karnataka State Women's University, Bijapur, 2015-18.
3. Member Research Review Committee, Tumkur University, Tumkur, 2014-15 and 2015-18.
4. Member External Research Committee, Mount Carmel College(Autonomous), Bangalore.
5. Member Board of examination for Ph.D course work in Electronics, Kuvempu University, Shankaraghatta for the year 2011-12
6. Member Board of examination for Ph.D course work in Electronics, Mangalore University, Mangalore for the year 2011-12.
7. Member Doctoral Committee, Mangalore University, Mangalore.

Board of studies

1. Member Board of studies in Electronics (UG), Akkamahadevi Women's University, Vijayapura, 2017-20.
2. Member Board of studies in Electronics , RLSIC, Rani Channamma University, Belagavi 2020-22.
3. Member Board of studies in Electronics (PG), Kuvempu University, Shankaragatta, 2011-14, 2018-20. Member Board of studies in Electronics, Govt. Science collage (autonomous), Hassan.
4. Member Board of studies in Electronics (PG & UG), Davangere University, Davangere, 2017-20.
5. Member Board of studies in Electronics (PG), Karnataka State Women's University, Bijapur, 2013-16 and 2016-19.
6. Member Board of studies in Electronics, Govt. Science collage (autonomous), Bangalore, 2015-17
7. Co-opted Member Board of studies in E&C, RVCE, Bangalore 2013-14.
8. Member Board of studies in Electronics[PG], The National Degree College Basavanagudi (autonomous), Bangalore, 2012-14
9. Member Board of studies in Electronics, Mount Carmel College (autonomous), Bangalore, 2012-14.
10. Member Board of studies in Electronics (PG), Mangalore University, Mangalore, 2011-14.
11. Member Board of studies in Electronic science (PG & UG), Bangalore University, Bangalore. Bangalore, 2011-14.
12. Member Board of studies in Electronics (PG), Karnataka State Women's University, Bijapur, 2011-12.
13. Member Board of studies in Electronics (PG), Tumkur University, Tumkur, 2011-12, 2018-20.
14. Member Board of studies in Electronic science, Christ University, Bangalore. Bangalore, 2011-12.
15. Member Board of studies in Electronic science (PG), Bangalore University, 2008-10.
16. Member Board of studies in Electronics (PG), Mount Carmel College (autonomous), Bangalore, 2009-11.
17. Member Board of studies in Electronics, Christ University, Bangalore. Bangalore, 2009-10.
18. Member Board of studies in Electronics, NMRKV collage (autonomous), Bangalore, 2009-11.

19. Member Board of studies in Electronics, St. Joseph's collage (autonomous), Bangalore, 2008-11.
20. Member Board of studies in Electronic science (PG), Bangalore university 2005-07.
21. Member Board of studies in Electronic science (PG), Bangalore university 2002-04.

Co-ordinator/Custodian

1. Served as a course Co-coordinator for the **Refresher Course** in Material Science organized by UGC-HRDC, Bangalore University, Bangalore, 27th January – 8th February 2020.
2. Served as custodian for valuation unit pertaining to 4 years BS course, Bangalore university, September & October 2013 Examination.
3. Served as custodian for valuation unit pertaining to PG II & IV Semester Science, J.B. Campus, Bangalore university, June & July 2013 Examination.
4. Served as Co-ordinator for Re-valuation unit pertaining to PG II & IV Semester Arts, Science, Education, Physical education and Law (J.B. Campus), June & July 2012 Examination.
5. Served as Assistant custodian for valuation unit pertaining to PG II & IV Semester Science (J.B. Campus), June & July 2012 Examination.

Board of examination

1. Member Board of examiners in Electronics (PG-Regular) & Power Electronics (PG-Distance Education), Kuvempu University for the years 2007-08, 2014-15, 2016-17 and 2018-19.
2. Member Board of examiners in Electronics (PG), Mangalore University for the years 2008-09, 2015-16 and 2018-19
3. Member Board of examiners in Electronics (PG), Karnataka State Women's University, Bijapur, 2013-14, 2012-13 and 2014-15
4. Member Board of examiners in Electronics (PG), University of Mysore, for the years 2012 and 2016.
5. Member Board of examiners in Instrumentation Technologies (PG), Gulbarga University, Raichur for the years 2012.
6. Member Board of examiners in Electronic science(PG), Bangalore University for the years 2001-02, 2003-04, 2005-06, 2007-08, 2009-10, 2010-11, 2013-14, 2014-15, 2016-17 and 2017-18
7. Member Board of examiners in Computer application/computer Science(PG), Bangalore University for the years 2008-09
8. Member Board of examiners in Electronics & Instrumentation (UG), Bangalore University for the years 2001-02, 2003-04 and 2010-11
9. Member Board of examiners in Electronics –Vocational (UG), Bangalore University for the years 2001-02 and 2003-04

Teaching Experience:

Name of the College/University	Position held	From	To	No. of Years	Course Taught
Dept. of Electronic Science, Jnanabharti, Bangalore University, Bangalore	Professor	7.11.2012		5½	PG (M.Sc.)
	Associate Professor	7.11.2009	6.11.2012	3	PG (M.Sc.)
	Reader	7-11-2006	6.11.2009	3	PG (M.Sc.)
	Sr.Scale Lecturer	7-11-2001	6-11-2006	5	PG (M.Sc.)
	Lecturer	25.03.98	6-11-2001	4	PG (M.Sc.)
A.V.K College for Women, Hassan.	Lecturer	14.08.95	24.03.98	2½	UG (B.Sc.)
Dept. Electronics, Hemagangotri, P.G. Centre, University of Mysore, Hassan. (Part-time)	Guest Lecturer	26.10.95	24.03.98	2½	PG (M.Sc.)

LIST OF JOURNAL PAPER/BOOKS PUBLISHED

1. Swetha, Mohankumar N M, Mohana H K and **Devaraju J T**, “An Optimized User Prioritized Service Provisioning in LTE Network”, International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-6, (March 2020) p.5293, ISSN: 2277-3878 (scopus) IF(VOC)6.04.
2. Swetha, Mohankumar N M, Ramanuja H.S and **Devaraju J T**, “Venue Cast User Prioritized Round Robin Scheduling Algorithm”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-3, (January 2020) p.3136, ISSN: 2278-3075 (scopus) IF5.54.
3. Suhas K R , Bhavya Shree S B , Mohana H K and **Devaraju J T**, "Performance Evaluation of Hierarchical and Flat Architectures in IEEE 802.15.4 Standard Networks", International Journal for Research in Engineering Application & Management (IJREAM), Vol. 04, Issue 07, p. 518-521, October 2018, ISSN 2454-9150
4. Suhas K R, Mohana H K and **Devaraju J T**, "Design and Performance Evaluation of Novel DCT Frame Based Compression Algorithm for Wireless Video Surveillance Systems", International Journal Of Research In Electronics and Computer Engineering (IJRECE), Vol. 6, Issue 4, p. 462-464, October-December 2018, ISSN: 2348-2281
5. Suhas K R, Mohankumar N M, Swetha and **Devaraju J T**, "Performance of LTE Networks with Multi-Antenna Techniques in Rayleigh and Ricean Fading Environments", International Journal of

Computer Networks and Wireless Communications (IJCNCW), Vol.8, No.5, p.71-77, Sep-Oct 2018, ISSN: 2250-3501

6. Swetha, Mohankumar N M, and **Devaraju J T**, “Queue Length and Channel Quality based Proportional Fair Scheduling Igorithm for LTE Network”, International Journal of Electronics Engineering (IJEE), Volume 10, Issue 1 (June, 2018), p.266, ISSN: 0973-7383
7. Swetha, Mohankumar N M, Shwetha D and **Devaraju J T**, “Adaptive Proportional Fair Scheduling Algorithm for Delay Constraint LTE Network ”, International Journal of Electrical Electronics & Computer Science Engineering (IJECESE), Volume 5, Issue 2 (April, 2018) | E-ISSN : 2348-2273 | P-ISSN : 2454-1222
8. Shwetha D, Swetha , Suhas K R and **Devaraju J T**, “Relay Selection Algorithm for IPTV based Services”, Int. J. Sc. Res. in Network Security and Communication, Volume-6, Issue-1, February 2018, ISSN: 2321-3256.
9. **Manjunatha D, Mohankumar N M , S. Ravishankar , J. T. Devaraju**, “Node Power Aware Route Search Protocol for Manets”, International Journal of Computer Engineering and Applications, Volume XI, Issue X, October 2017, www.ijcea.com ISSN 2321-3469
10. Mohana H.K, Mohankumar N.M, Suhas K.R and **Devaraju J.T**, “Effect of Noise Factor on System Performance in LTE Networks” , International Journal of Computer Applications Volume 138 – No.9, March 2016, ISSN:0975 – 8887, p.34
11. Krishna Teja Yadav CH. T, C.Y. Gopinath, Mohankumar N. M., Devaraju J.T, “Performance Evaluation of Scheduling Algorithms with Different MIMO Techniques in LTE Systems”, International Journal of Computer Science and Technology (IJCST), Vol. 6, Issue 3, July - Sept 2015 ISSN : 0976-8491 (Online), ISSN : 2229-4333 (Print), p214.
12. K. Bheemarao, C.Y. Gopinath, N.M. Mohankumar, **J.T. Devaraju**, “Performance Analysis of Different Scheduling Algorithms in LTE System for Jitter Constraint”, International Journal for Scientific Research & Development (IJSRD) , Vol. 3, Issue 07, 2015, ISSN (online): 2321-0613, p495.
13. Mohana H K, Mohankumar N M and **Devaraju J T**, “Impact of Adaptive Modulation and Coding Schemes on Bit Error Rate for System Performance in the Uplink LTE System”, Int.J.Computer Technology & Applications (IJCTA) ,Vol 6 (5), P 803-809, Sept-Oct 2015, ISSN:2229-6093
14. **J.T. Devaraju**, K.R. Suhas, H.K. Mohana and Vijaykumar A.Patil, “Wireless Portable Microcontroller Based Weather Monitoring Station”, Measurement, Elsevier, 76, p189-200, Sept-2015, 0263-2241, //dx.doi.org/10.1016/j.measurement.2015.08.027, IF1.53.
15. Mohana H K, Mohankumar N M, Suhas K R and **Devaraju J T**, “Performance Evaluation of Mobility Effects on Various Transmission Modes in the LTE Network”, International Journal of Scientific & Engineering Research (IJSER), Volume 6, Issue 6, June-2015, p 618, ISSN 2229-5518, IF3.2.
16. Shwetha D, Mohan Kumar N M and **Devaraju J T**, “Modulation Aware Connection Admission Control and Uplink Scheduling Algorithm For Wimax Networks”, International Journal of Wireless & Mobile Networks (IJWMN) Vol. 7, No. 1, February 2015,p75-90, DOI : 10.5121/ijwmn.2015.7105 75.
17. Jyothi V, Suhas K R, Mohankumar N M, **Devaraju J T**, “*Performance Study of Proactive, Reactive and Hybrid Routing Protocols for MANET in Multiple CBR Scenario*”, International Journal of Computer Science And Technology (IJCST), Vol. 6, Issue 1, Jan - March 2015, ISSN : 0976-8491 (Online) | ISSN : 2229-4333 (Print), P. 57-61, IF-1.76
18. Mohana H K, Mohankumar N M, Swetha, **Devaraju J T**, “*The Study and Analysis of Effect of Multi-Antenna Techniques on LTE network with Different Bandwidth Configurations in the*

- Downlink*”, Int. J. Advanced Networking and Applications (IJANA), Volume: 6 Issue: 3 Pages: 2314-2318 (Dec. 2014) ISSN : 0975-0290, Pp 2314-2318, IF-3.462
19. Mohana H K, Mohankumar N M, Swetha and **Devaraju J T** , “Effect of Bandwidth Scalability on System Performance in the Downlink LTE Systems ”, International Journal of Advanced Research in Computer Science (IJARCS), Vol. 5, No. 7, September-October 2014, p136-140, ISSN No. 0976-5697, IF 3.74.
 20. Mohankumar N. M., M Subramanya Bhat, Jyothi V and **Devaraju J. T**, “*Link Quality Based Power Efficient Routing Protocol (LQ-PERP)*”, International Journal of Computer Networking, Wireless and Mobile Communications (IJCNWMC), Vol. 4, Issue 5, Oct 2014, 7- 20, ISSN(P): 2250-1568; ISSN(E): 2278-9448, © TJPRC Pvt. Ltd. IF5.3963
 21. Mohankumar N. M., Swetha, Mohana H.K and **Devaraju J. T**, “*Effect of Adaptive Modulation and Coding Schemes on Scheduling Algorithms for LTE Downlink* ”, International Journal of Software & Hardware Research in Engineering, Volume 2 , Issue 6, June-2014, ISSN: 2347 – 4890, p53-58. IF2.669(sjif)
 22. Swetha, Mohankumar N. M., and **Devaraju J. T**, “*Performance Study of Round Robin and Proportional Fair Scheduling Algorithms by Emulation for Video Traffic in LTE Networks*”, International Journal of Computer Applications (IJCA), International Conference on Current Trends in Advanced Computing (ICCTAC), p6-9, May-2014, ISSN: 0975 – 8887.
 23. Shwetha D, Thontadharya H.J and **J.T. Devaraju**, “*A Bandwidth Request Mechanism for QoS Enhancement in Mobile WiMAX Networks*”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), Volume 3, Issue 1, January 2014, p6881-6888, ISSN (Print) : 2320 – 3765, ISSN (Online): 2278 – 8875,(An ISO 3297: 2007 Certified Organization) (IF1.686)
 24. M. Subramanya Bhat, N. M. Mohan Kumar, V. Jyothi and **J.T. Devaraju** “*Performance Study of Adhoc on-Demand Link Quality Aware Route Search Protocol (AO-LQARSP)*”, International Journal of Emerging Technology and Advanced Engineering (IJETA), Volume 4, Issue 1, January 2014, p78-84, ISSN 2250-2459, ISO 9001:2008 Certified Journal. (IF1.932)
 25. Swetha, Mohankumar N. M., and **Devaraju J. T**, “*Performance Study of Proportional Fair Scheduling Algorithm with Transmit Diversity Multi-Antenna Technique For LTE Network*”, International Journal of Electrical, Electronics and Data Communication (IJEEDC), Vol. 1, Issue-9, p67-69, Nov-2013, ISSN: 2320-2084. IF:0.6
 26. Subramanya Bhat. M., Jyothi. V. and **Devaraju. J.T.** “*Establishing a Wireless Sensor Network to Monitor the Temperature in a two storied building*”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (**IJAREEIE**), Vol. 2, Issue 4, p1508-13, April 2013, ISSN (Print) : 2320 – 3765, ISSN (Online): 2278 – 8875
 27. Swetha, Mohankumar N. M., and **Devaraju J. T**, “*Performance Evaluation of Round Robin and Proportional Fair Scheduling Algorithms for Constant Bit Rate Traffic in LTE* ”, IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC), Vol.3, No.1, p41-44, February 2013, ISSN: 2250-3501.
 28. G. Ravi Kolarkar, **J. T. Devaraju** and S. Asokan, “*Composition dependence of optical band gap and thermal diffusivity of In-Se-Tl bulk glasses*”, International Journal of Applied Engineering Research (IJAER), Volume 8, Number 1 (2013) pp. 23-32, ISSN 0973-4562.
 29. G. Ravi Kolarkar, **J. T. Devaraju** and S. Asokan, “*IR Studies of Impurities in In-Se-Tl Bulk Chalcogenide Glassy System*”, International Journal of Engineering Research and Applications (IJERA), Vol. 2, Issue 6, Nov-Dec. 2012, pp.1249-1252, ISSN: 2248-9622.
 30. G. Ravi Kolarkar, **J. T. Devaraju** and S. Asokan, “*Effect Of Thallium Additive On Heat Capacities Of In-Se Bulk Chalcogenide Glasses*”, International Journal of Engineering Research & Technology (IJERT), Vol. 1 Issue 9, Nov. 2012, ISSN: 2278-0181.

31. Subramanya Bhat M., Thontadharya H.J and **Devaraju J.T.**, “Performance Evaluation of Reactive Routing Protocols for IEEE 802.11”, World Journal of Science and Technology (WJST), 2(10) p1-5, 2012,ISSN 2231-2587
32. Subramanyabhat M, **Devaraju J.T** and Shwetha D, “Wireless Sensor Networks: A Performance Study of IEEE 802.15.4 Standard” International Journal of Advanced Research in Computer Science (IJARCS), Vol. 3, No. 5, Sept-Oct 2012, p132-135, ISSN No. 0976-5697 .
33. Ramani, M.C Radhakrishna, B Angadi and **J.T Devaraju**, “Synthesis Of Nano Bismuth Ferrite Multiferroics By Microcontroller Based Thermogravimetric Analyzer”, International Journal Of Scientific Research (IJSR)(Material Science), Volume 1, Issue 4, Sep 2012, p118, ISSN No 2277 – 8179.
34. Mohankumar N. M., Swetha and **Devaraju J. T**, “Performance Evaluation of Multi Antenna Techniques in LTE”, International Journal of Mobile Network Communications & Telematics (IJMNCT), Vol.2, No.4, p97-105, August 2012, ISSN:1839-5678 (DOI : 10.5121/ijmnct.2012.2409)(AIRCC).
35. Thontadharya H.J., Shwetha D., and **Devaraju J.T.**, “Study of Routing and Scheduling Algorithms in WiMAX Mesh and Multi Hop Networks”, World Journal of Science and Technology (WJST) 2012, 2(5):120-123, ISSN: 2231 – 2587.
36. P.H. Suresha, Ramani, M.C. Radhakrishna, Basavaraj Angadi and **J.T. Devaraju**, “Characterisation of BiFeO₃ synthesised by microcontroller based thermogravimetric analyser”, Indian Journal of Engineering & Material Sciences, Vol. 19, June 2012, pp. 196-198, ISSN: 0975-1017 (Online); 0971-4588 (Print), (IF 0.223)
37. Thontadharya H.J., Shwetha D., Subramanyabhat M. and **Devaraju J.T.**, “Simulation and Emulation Approach for the Performance Evaluation of Adaptive Modulation and Coding Scheme in Mobile WiMAX Network”, *International Journal of Computer applications*, Vol 44- No 16, April 2012. ISSN: 0975 – 8887. (IF0.835)
38. Subramanya Bhat M, Shwetha D, Thontadharya H.J and **Devaraju J.T**, “*Simulation Study on Improved AODV Routing protocol*”, International Journal of Computer Information Systems (IJCIS), Vol 4, No.1, 29-32, 2012, ISSN:2229-5208.
39. Sandhya Kulkarni , Shwetha D , **Devaraju J.T** and D. Das, “*Channel Aware Uplink Scheduler for a Mobile Subscriber Station of IEEE 802.16e*” , International Journal of Computer Applications (0975 – 8887) Volume 35– No.6,15-22, December 2011. (IF0.835)
40. Morigere Subramanya Bhat, Shwetha D, Manjunath D and **J.T. Devaraju**, “*Scenario Based Study of On-demand reactive routing protocol for IEEE-802.11 and 802.15.4 standards*”, International Journal of Computer Science & Communication Networks (IJCSCN), **Vol 1(2)**, 128-135, Oct-Nov 2011, ISSN:2249-5789.
41. Shwetha D, Thontadharya H.J, Subramanya Bhat M and **J.T. Devaraju**, “*Performance Analysis of ARQ Mechanism in WiMAX Networks*”, International Journal of Computer Science & Communication Networks (IJCSCN), **Vol 1(2)**, 123-127, Oct-Nov 2011, ISSN:2249-5789.
42. Thontadharya H.J, Shwetha D, Subramanya Bhat M and **J.T. Devaraju**, “*Performance Study of Bandwidth Request Mechanisms in IEEE 802.16e Networks*”, International Journal of Computer Science & Communication Networks (IJCSCN), **Vol 1(2)**, 136-141, Oct-Nov 2011, ISSN:2249-5789.
43. **J.T. Devaraju**, P.H Suresh, Ramani and M.C. Radhakrishna “*Development of Microcontroller based Thermo gravimetric Analyzer*” Measurement **44** (2011) pp. 2096-2103, **doi:10.1016/j.measurement.2011.08.007.** (0.846)
44. Subramanya Bhat M, Shwetha D and **J.T. Devaraju**, “A Performance Study of Proactive, Reactive and Hybrid Routing Protocols using Qualnet Simulator”, International Journal of Computer Applications (0975 – 8887) Volume 28– No.5, 10-17, August 2011. (IF0.835)

45. Shwetha D, Subramanya Bhat M and **J.T. Devaraju**, “Performance Evaluation of Connection Admission Control for IEEE 802.16 Networks”, International Journal of Computer Applications (0975 – 8887), **Volume 25**– No.8, 1-7, July 2011. (IF0.835)
46. Sandhya Kulkarni, Shwetha D, **Devaraju J.T**, and D. Das, “Traffic Sensitive and Traffic Load Aware Path Selection Algorithm For MMR WIMAX Networks”, International Journal of Distributed and Parallel Systems (IJDPS) Vol.2, No.4, 182-193, July 2011. ISSN 2229-3957 (print), 0976-9757 (online)
47. Sandhya Kulkarni, H. J. Thontadharya, **J.T Devaraju**, D Das “Performance Evaluation of VoIP in Mobile WiMAX; Simulation and Emulation studies” International Journal on Computer Science and Engineering (IJCSSE), Vol. 3, No. 3, 1124, 2011 (ISSN : 0975-3397).
48. **J.T. Devaraju**, H.J. Thontadharya & Nagaraj K, Nine profile & Nine segment Temperature Programmer for Mashing Apparatus, *Instrumentation Science and Technology (T&F)*, 39:101–109, 2011. ISSN: 1073-9149(Print), 1525-6030 (Online). (IF-0.448)
49. **Devaraju J.T** & Sandhya Kulakarni “Development of Isolated Dual Channel Transient Recorder” JI. of Instrum. Soc. of India Vol. 39 No.4, Dec 2009.
50. B.H. Sharmila, **J. T.Devaraju** and S. Asokan, “A Modulated Differential scanning calorimetric study and As-Te-In glasses”, *J.Non-cryst. Solids*, 326 and 327 (2003) 154-158.
51. **J.T Devaraju**, B.H Sharmila, S Asokan and K.V Acharya, “Threshold electrical switching in $As_{45}Te_{55-x}In_x$ and $As_{50}Te_{50-x}In_x$ glasses”, *Appl. Phys. A*, 75 (2002).
52. B.H Sharmila, **J.T Devaraju** and S Asokan, “High-pressure resistivity behaviour of As-Te-In glasses - the effect of network topological thresholds”, *J. of Non-Cryst. Solids*, **303**, 372 (2002).
53. **J.T. Devaraju**, S. Asokan, and E.S.R. Gopal, “Electrical switching in Chalcogenide glasses: The current status” in “Frontiers in Materials Physics” published by Allied Publishers, Ltd., New-Delhi (2002).
54. **Devaraju J.T**, Sharmila B.H, Acharya K.V, Asokan S, and Gopal E.S.R, “Non-linear I-V characteristics and threshold switching in As-Te-In glasses”, *Intl. Con. On solid state Cryst., Proc. of SPIE*, **4412**, 250 (2001).
55. **J.T Devaraju**, B.H Sharmila, S Asokan and K.V Acharya, “Threshold electrical switching in bulk As-Te-In glasses: composition dependence and topological effects”, *Philos. Mag.* **B**, 81, 6, 583 (2001).
56. D.Manjunatha and **Dr. J.T. Devaraju**, “Book on Electronics a complete reference”, United Publishers, Mangalore, 2008.

Conference, Seminar organized and attended International and National:

1. Ramanuja H S, Suhas K R, Mohana H K and **Devaraju J T**, “Performance Evaluation of Network Layer Protocols for Multimedia Streaming over Ad Hoc Networks”, Presented in National Conference on SAMVIDH-2019, held on 14th October 2019, organized by Seshadripuram First Grade College, Bengaluru.
2. Swetha, Mohankumar N M, Mohana H K and **Devaraju J T**, “User Priority Based Service Provisioning over LTE Network” Presented in National Conference on SAMVIDH-2019, held on 14th October 2019, organized by Seshadripuram First Grade College, Bengaluru.
3. BhavyaShree S B, Mohana H K, Suhas K R and **Devaraju J T**, “Balanced LEACH and Balanced 2-Tier LEACH Protocol for Wireless Sensor Networks”, Presented in National Conference on SAMVIDH-2019, held on 14th October 2019, organized by Seshadripuram First Grade College, Bengaluru.
4. Shwetha D, Mohana H K and **Devaraju J T**, “A Survey on Enabling Technologies of IoT”, Presented in National Conference on SAMVIDH-2019, held on 14th October 2019, organized by Seshadripuram First Grade College, Bengaluru.

5. Mohana H.K. Ramanuja H.S, Vijaykumar A. Patil and **Dr. J.T. Devaraju**, “Novel Algorithm for Adaptive Carrier Aggregation in LTE-Advanced System”, Presented in National Conference on Emerging Trends, Innovations and Applications in Science & Technology, held on 1st October 2019, organized by Nagarjuna College of Management Studies in Association with Infidata Technologies, Bengaluru.
6. Mohana H.K., Suhas K.R., Nethra H. S. and **Dr. J.T. Devaraju**, “Performance Evaluation and Analysis of LTE and Wi-Fi Coexistence for Traffic Offloading in LTE-Advanced Systems”, Presented in National Conference on Future India: Science & Technology Exploring New Horizons for a Sustainable Scientific Consortia held on 10th and 11th October 2018, organized by The Indian Science Congress Association Bengaluru Chapter in Association with The Oxford College of Science, Bengaluru.
7. Mohana H.K., Nethra H.S. and **Dr. Devaraju J.T.**, “A Study on Challenges and Opportunities in Internet of Things”, Presented in National Conference on Innovation, Entrepreneurship and Start-Ups for Economic Transformation-Trends, Opportunities and Challenges” held on 13th April 2018, organized by Sindhi College, Bengaluru.
8. Mohana H.K., Nethra H.S. and **Dr. Devaraju J.T.**, “A Study on Security and Privacy Issues in Fog Computing”, Presented in One Day National Seminar on “Emerging Trends in Physical, Natural And Information Science”, held on 15th March 2018, organized by S.E.A College of Science and Commerce & Arts, Bangalore and published in Shanlax International Journal of Arts, Science and Humanities Vol. 5 Special Issue 3 April 2018 ISSN: 2321-788X p.29-33
9. Suhas K.R, Mohankumar N M, Swetha and **Devaraju J. T.** “*Performance of LTE networks with Multi-antenna Techniques in Rayleigh and Ricean Fading Environments*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
10. Swetha, Mohankumar N M, Shwetha D and **Devaraju J. T.** “*Buffer Aware Proportional Fair Scheduling Algorithm for Delay Constraint LTE Network*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
11. Suhas K.R, Mohan H.K and **Devaraju J. T.** “*Implementation and Performance evaluation of Traffic Differential – Carrier Sensing Multiple Access- Collision Avoidance MAC Protocol for Ad hoc networks*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
12. Thontadharya H.J, Shwetha D, and **Devaraju J. T.** “*An Overview of Network Slicing for the Future 5G Mobile Networks*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
13. Bhavyashree S.B, Suhas K.R and **Devaraju J. T.** “*Balanced LEACH and Balanced 2-tier LEACH Protocol for Wireless Sensor Networks*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
14. Ramanuja H.S, Suhas K.R and **Devaraju J. T.** “*A Novel Algorithm for Inter Cell Interference Coordination in LTE Networks*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
15. Shwetha D, Mohankumar N M, Swetha and **Devaraju J. T.** “*Performance Analysis of RS Mobility in IEEE802.16j MMR WiMAX Networks*” Presented in National Conference on “Recent Trends In Electronics and Communication –RTEC-2018”, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.

16. Mohana H K, Nethra H.S and **Devaraju J. T**, “*Effect of transmit power on throughput and jitter performance in the downlink LTE network*” Presented in National Conference on “Competency building strategies in business and technology for sustainable development”, held on 11th February 2017, organized by S.E.A College of Science and Commerce & Arts, Bangalore and published conference proceedings , ISBN 978-81-933316-6-8, , p.33.
17. Suhas K.R, Bhavya Shree S.B, Shwetha .D and **Devaraju J. T**. “*To Study The Effects of Duty Cycle on IEEE 802.15.4 Standard Networks for Various Configurations of Beacons and Superframe Orders*” Presented in National Conference on “Recent Trends In Physical Sciences – RTPS 16”, held on 25th-26th February 2016, organized by Jain University, Bangalore and published in Academic journal,Pariprashna, ISSN 0976-7150, Vol-IX, Issues-I & II, p.280.
18. Mohana H K, Mohankumar N M, Swetha and **Devaraju J. T**, “*Perfromance Study of Transport Blocks Errors on Data Rates in LTE Networks*” Presented National Conference on “Recent Trends In Physical Sciences –RTPS 16”, held on 25th-26th February 2016, organized by Jain University, Bangalore and published in Academic journal,Pariprashna, ISSN 0976-7150, Vol-IX, Issues-I & II, p.306.
19. Manjunatha .D, Mohankumar N M, Jyothi V and **Devaraju J. T**, “*Performance Study of power AODV Routing Protocol for MANETS*” Presented in National Conference on “Recent Trends In Physical Sciences –RTPS 16”, held on 25th-26th February 2016, organized by Jain University, Bangalore and published in Academic journal,Pariprashna, ISSN 0976-7150, Vol-IX, Issues-I & II, p.254.
20. M Subramanya Bhat, Vijaya Kumar A Patil, D Manjunatha, and **Devaraju J. T**, “*A Bird View of Wireless Sensor Network*” Presented in National Conference on “Recent Trends In Physical Sciences –RTPS 16”, held on 25th-26th February 2016, organized by Jain University, Bangalore and published in Academic journal,Pariprashna, ISSN 0976-7150, Vol-IX, Issues-I & II, p.215.
21. Suhas.K.R, Jyothi.V, Vijaykumar A. Patil and Devaraju .J.T, “Analyzing and Evaluating Beacon and Non Beacon Enabled Mode of IEEE802.15.4 MAC protocol for Streaming” , at National conference on Evolving Trends and Challenged in Science & Research- an Exploration, held on 29th Jnauray 2016, organized by Basaveshwara College of Commerce, Arts & Science, Bangalore, Sponsored by UGC and published in proceedings, pp.24-28.
22. Swetha, Mohankumar N M, Shwetha D, Devaraju J T, “ Max-Min aware PF scheduling Algorithm for downlink LTE systems” , at National conference on Evolving Trends and Challenged in Science & Research- an Exploration, held on 29th Jnauray 2016, organized by Basaveshwara College of Commerce, Arts & Science, Bangalore, Sponsored by UGC and published in proceedings, pp.40-43.
23. Mohankumar N M, Swetha, Mohana H K, Devaraju J T, “Channel Quality Based adaptive video quality scaling technique for LTE Networks”, at National conference on Evolving Trends and Challenged in Science & Research- an Exploration, held on 29th Jnauray 2016, organized by Basaveshwara College of Commerce, Arts & Science, Bangalore, Sponsored by UGC and published in proceedings, pp.107-110.
24. Jyothi.V, Suhas.K.R, Vijaykumar A. Patil and Devaraju .J.T, “Performance Study of Reactive Routing Protocol for Various Signal Fading Models”, at National conference on Evolving Trends and Challenged in Science & Research- an Exploration, held on 29th Jnauray 2016, organized by Basaveshwara College of Commerce, Arts & Science, Bangalore, Sponsored by UGC and published in proceedings, pp.144-148.
25. Bhavya Shree S. B, Suhas.K.R, Jayashri Kori and Devaraju J.T, Performance Evaluation of IEEE 802.15.4 standard in Flat and Hierarchical network topologies, at National conference on Evolving Trends and Challenged in Science & Research- an Exploration, held on 29th Jnauray 2016, organized by Basaveshwara College of Commerce, Arts & Science, Bangalore, Sponsored by UGC and published in proceedings, pp.29-33.
26. Mohankumar N. M, Swetha, Mohana H.K and **Devaraju J. T** “*Throughput and Fairness Performance Evaluation of Scheduling Algorithms for Downlink LTE*” Presented in

- JNANARJANA 2K14, 6th National Science Conference on “Beyond the frontiers in Science & Technology”, held on 27th-28th March 2014, organized The Oxford College Of Science, Bangalore, and published in proceedings, pp.55-60.
27. Jyothi.V, Suhas K. R, Subramanya Bhat M and Devaraju. J. T, “*Performance Evaluation of On-Demand Reactive Routing Protocol with Multiple CBR Connections for IEEE 802.11 and IEEE802.15.4 Standards*” Presented in JNANARJANA 2K14, 6th National Science Conference on “Beyond the frontiers in Science & Technology”, held on 27th-28th March 2014, organized The Oxford College Of Science, Bangalore, and published in proceedings, pp.61-67.
 28. Mohankumar N. M, Swetha, Mohana H.K and **Devaraju J. T** “*A Performance Evaluation of Different Scheduling Algorithms with AMC for Downlink LTE*” Presented in National Conference on Recent Trends in Electronics and its applications (NCRTEA-2014), held on 14th-15th March 2014, organized by Dept. of Electronics, GFGC, K.R. Pura, Bangalore, and published in proceedings, pp.88-92.
 29. Jyothi.V, M. Subramanya Bhat, Suhas K. R and **Devaraju. J. T**, “*A Performance Study of Proactive, Reactive and Hybrid Routing Protocols with multiple CBR connections for IEEE802.11 standard*” Presented in National Conference on Recent Trends in Electronics and its applications (NCRTEA-2014), held on 14th-15th March 2014, organized by Dept. of Electronics, GFGC, K.R. Pura, Bangalore, and published in proceedings, pp.36-41.
 30. Jyothi.V, Suhas K. R and **Devaraju. J. T**, “*A Performance Study of Reactive and Hybrid Routing Protocols for various CBR connections*” Presented in International Conference on Current Trends in Advanced Computing (ICCTAC), held on 20th-21st February 2014, organized by Kristu Jayanti College of Management and Technology, Bangalore, Karnataka, India and published in proceedings, pp.15-19.
 31. Swetha, Mohankumar N. M and **Devaraju J. T**, “*Emulation Study of Round Robin and Proportional Fair Scheduling Algorithms For Video Traffic In LTE Networks*” Presented in International Conference on Current Trends in Advanced Computing (ICCTAC),), held on 20th-21st February 2014, organized by Kristu Jayanti College of Management and Technology, Bangalore, Karnataka, India and published in proceedings, pp.25-28.
 32. Swetha, Mohankumar N. M., and **Devaraju J. T**, “*Performance Study of Proportional Fair Scheduling Algorithm with Transmit Diversity Multi-Antenna Technique For LTE Network*”, Presented in International Conference on Electrical, Electronics and Data Communication (ICEEDC), organized by Institute of Research and Journals (IRAJ-7th conference), held on 10th November 2013 at Pune, Published in conference Proceedings, ISBN: 978-93-82702-38-2.
 33. Jyothi. V, M. Subramanya Bhat and **J.T.Devaraju**, “*Comparative Performance Evaluation of Different AdHoc Routing Protocols in IEEE 802.15.4*”, Presented in National Symposium on Low Power Solutions for Communications, organized by Dept. of E & C, RVCE, Bangalore, held on 19th -20th April, 2013. Published in conference Proceedings.
 34. Vedavathi.B.S, M.Subramanya, Shashikumar and **J.T.Devaraju**, “*A Performance Study of AODV and ZRP Protocols for Mobile Adhoc Network (MANET)*”, Presented in National Symposium on Low Power Solutions for Communications, organized by Dept. of E & C, RVCE, Bangalore, held on 19th -20th April, 2013. Published in conference Proceedings.
 35. Akshaya Y M, M.Subramanya, Shashikumar and **J.T.Devaraju**, “*Performance Evaluation Of AODV and LAR with 802.15.4 Standard*”, Presented in National Symposium on Low Power Solutions for Communications, organized by Dept. of E & C, RVCE, Bangalore, held on 19th -20th April, 2013. Published in conference Proceedings.
 36. Thontadharya. H.J, Shwetha. D, Subramanya Bhat M and **Devaraju. J.T.**, “*Effect of Idle mode on Power Saving in Mobile WiMAX Network*”, Presented in International Conference on Advances in Computing (ICAdC-2012), organized by Dept. of Computer Science & Engg, Information Science & Engg. and Computer Applications, MSRIT, Bangalore, held on 4th -6th July, 2012. Published in Proceedings of ICAdC, *Advances in intelligent and soft computing-Springer*, 174, pp. 491–499 (ISSN 2194-5357, ISBN 978-81-322-0739-9).

37. Subramanya Bhat M, Mohankumar. N.M and **J.T Devaraju**, “**Real Time Emulation Study of AODV and Improved AODV Protocols**”, Presented at *National Conference on Advances in Electronics & communication technology* (NCAECT-2012), Organized by Department of Studies and Research in Electronics, Kuvempu University held on 18th May 2012 and Published in Proceedings of NCAECT-2012.
38. Shwetha. D, Thontadarya. H.J and **Devaraju. J.T**, “**Study of Handover Threshold and Handover on the QoS Performance of WiMAX**”, Presented at *National Conference on Advances in Electronics & communication technology* (NCAECT-2012), Organized by Department of Studies and Research in Electronics, Kuvempu University held on 18th May 2012 and Published in Proceedings of NCAECT-2012.
39. M. Subramanya Bhat, Manjunatha. D, Basavaraj. N. Jagadale and **Devaraju J. T**, “Comparitive Study of AODV,OLSR and ZRP Protocols” Presented at National Conference on Advanced Computing and Computations (NCACC’ 12), organized by Dept. of P.G. Studies and research in Computer Science, held on 27th -28th April and published in proceedings of NCACC’12, pp168-171.
40. Sarasa N R, Shwetha D, **J.T.Devaraju**, “Performance Evaluation of Transparent relay mode in MMR WiMAX Systems” Presented at National Conference on Current Trends in Advanced Computing (CTAC’12), held on 9-10th March 2012, organized by Kristu Jayanti College of Management and Technology, Bangalore, Karnataka, India and published in proceedings, pp.69-71.
41. Mohankumar N.M, Manjunatha D and **J. T Devaraju**, “*Overview of LTE: The Next Generation Wireless Access Technology*” Presented at National conference on Recent Trends in Communication Technology, held on 13th January 2012, organized by Karnataka State Higher Education Council, Karnataka, India and published in proceedings, pp.142-152 and Chaired a Technical presentation session.
42. M. Subramanya Bhat, H.J.Thontadharya and **J. T Devaraju**, “*Performance Evaluation of Routing Protocol for IEEE 802.11 using Qualnet Network Simulator*” Presented at International conference on communication, computation, management & nano-technology (ICN-2011), held on 23rd -25th September 2011 at REC Bhalaki, Karnataka, India and published in proceedings of ICN-2011, **ISBN : 978-81-921740-0-6**.
43. Thontadharya H.J, Shwetha D and **J.T.Devaraju**, “*Study of Routing and Scheduling Algorithms in WiMAX Mesh and Multi Hop Networks*”, Presented at International conference on communication, computation, management & nano-technology (ICN-2011), held on 23rd -25th September 2011 at REC Bhalaki, Karnataka, India and published in proceedings of ICN-2011, **ISBN : 978-81-921740-0-6**.
44. B.R. Gowtham, M. Subramanya Bhat, **J.T. Devaraju**, M. Uttara Kumari and Prakash Biswgar, “*Performance Evaluation of DSR and ZRP Routing Protocol using Qualnet*” Presented at National conference on “*Emerging Trends in Biomedical signal processing*” held on 26th Feb, 2011 at RVCE, Bangalore and published in Conference proceedings.
45. N.M. Sunil Kumar, M. Subramanya Bhat, **J.T. Devaraju** and Prakash Biswgar, “*Scenario based Performance Evaluation of Reactive and Proactive Routing Protocols in Mobile Adhoc Networks*” Presented at National conference on “*Emerging Trends in Biomedical signal processing*” held on 26th Feb, 2011 at RVCE, Bangalore and published in Conference proceedings.
46. Sandhya Kulkarni, Shwetha D, **J.T. Devaraju** and D.Das, “*Performance Evaluation of Mobile Multi-hop relay WiMAX Network In Urban Environment*” presented at International conference ICODC, held on November 3rd and 4th, 2010, Oxford college of Engineering, Bangalore and published in Conference proceedings.
47. D. Manjunath, M subramanya bhat, **J.T. Devaraju** “*An overview of wireless sensor networks and applications*” presented in Knowledge utsav- national conference held on 28th august 2010 at Jain University, Kanakapura, Bangalore.

48. **J.T. Devaraju**, H.J. Thontadharya and K. Nagaraj, “*Temperature Programmer for Mashing Apparatus*” chaired a session and presented at ICEPWCH held on 29-31st July, 2010 Dept. of Zoology, Bangalore University, Bangalore.
49. **J.T Devaraju**, B.H. Sharmila and S Asokan “*Electrical Switching In As-Te-Tl Glasses: The Effect Of On State Current And Tl Addition On Switching Behaviour*”, presented in XVsymposium on non-oxide and new optical glasses held on 10-14th April, IISc, Bangalore (2006).
50. B.H Sharmila, **J.T Devaraju** and S Asokan, “*Extended stiffness threshold in As-Te-In glasses revealed by modulated differential scanning calorimetry*”, Presented in XIIIth International symposium on non-oxide glasses and new optical glasses, September 9-13 (2002), Pardubice, Czech Republic.
51. **K.J. Mallikarjunaiah**, J.T. Devaraju and R. Damle, “Computer Controlled Programmable Pulse Generator for Pulsed NMR Measurements”, presented in National Symposium on Instrumentation, 27-29th November, Coimbatore (2002).
52. **J.T Devaraju**, B.H Sharmila, S Asokan and K.V Acharya, “Electrical switching behaviour of bulk As-Te-In glasses”, presented in International Conference on Materials for Advanced Technologies, 1-6th July, Singapore (2001).

Special/Invited Lectures: Conference/Symposia/Workshop

1. Delivered invited talk on *Recent Advancement in 4G & 5G technologies* at Inter National Conference on Innovative Trends in Electronics and Communication (ICINEC-2019) on 30th and 31st December 2019, organized by Dept. of Electronics, Kuvempu University, Shankaragatta.
2. Delivered invited talk on *Advancement in Embedded System* at National Seminar on **New India @75** held on 16th October 2019, organized by S.E.A College of Arts, Commerce and Science, Bangalore.
3. Delivered invited talk on *Trends in present and future Wireless Communication Technology* at National Seminar on **Future India: Science & Technology** held on 10th -11th September 2018, organized by Indian Science Congress Association (ISCA) Bangalore Chapter, and The Oxford College of Science, HSR layout, Bangaore.
4. Delivered invited talk on *Overview of Advanced Wireless Communication* at National Seminar on **Emerging Trends in Physical, Natural and Information Science** held on 15th March 2018, organized by S.E.A College of Arts, Commerce and Science, Bangalore in association with Bengaluru North University.
5. Delivered Key Note Address/invited talk on *Overview of trends in Wireless Communication* at National Conference on **Recent Trends In Electronics and Communication (RTEC-2018)**, held on 7th February 2018, organized by Dept. of Electronics, Tumkur University, Tumkur.
6. Delivered invited talk on *Recent Advances in Electronics and Wireless Communication* at National Seminar on **Emerging Trends in Electronics (NSETTE-2016)**, held on 15th March 2016, organized by Dept. of Electronics, Kuvempu University, Shankaragatta.

7. Delivered invited talk on *Recent Advances in Wireless Communication Technologies* at National conference on **Recent Trends in Physical Science (RTPS 16)**, held on 25th & 26th February 2016, organized by Division of Physical Sciences, Jain University, Bangalore.
8. Delivered invited talk on *Overview of Trends in communication and Embedded system* at National conference on **Evolving Trends and Challenged in Science & Research- an Exploration**, held on 28th & 29th January 2016, organized by Basaveshwara College of Commerce, Arts & Science, Bangalore, Sponsored by UGC.
9. Delivered technical lecture on *Advances in Wireless communication and Embedded system* at State level Multidisciplinary Workshop on **Emerging Trends in Basic Sciences and Humanities**, held on 26th August 2015, organized by University College of Science, Tumkur University, Sponsored by UGC.
10. Delivered lecture on *Mobile Communication & WSN* , as a part of Proficiency course titled *Mobile Communication & WSN simulation using QualNet & NS3*, on 20th July 2015, organized by Dept. of ECE, R.V. college of Engineering, Bangalore.
11. Delivered invited lecture on *Wireless communication and WSN* in JNANARJANA 2K14, 6th National Science Conference on “Beyond the frontiers in Science & Technology”, held on 27th-28th March 2014, organized The Oxford College Of Science
12. Delivered technical lecture on *Recent Advances in Wireless communication and Embedded system* at National Conference on **Recent Trends in Electronics and its applications (NCRTEA-2014)**, held on 14th-15th March 2014, organized by Dept. of Electronics, GFGC, K.R. Pura, Bangalore.
13. Delivered Invited lecture on *Trends and Technological Advancement in electronics* at DST , sponsored Science Internship workshop- **INSPIRE**, on 23rd April, 2013 organized by Christ University, Bangalore.
14. Delivered Invited lecture on *Wireless Sensor Networks and Research trends in WSN: An overview* in Faculty Development Program (FDP)/ training program on *Real time Wireless Sensor Networks and Sensor Web*, April 9-10, 2013 jointly organized by the department of E&C, Dr. AIT and Nihon communications, Bangalore, sponsored by TEQUIP.
15. Delivered Invited lecture on *Recent trends in Wireless communication & Wireless Sensor Networks*, in Faculty Development Program (FDP) on *Wireless Sensor Networks and their applications*, March 18-22, 2013 organized by the department of Information Technology, Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra, sponsored by TEQUIP.

16. Delivered Invited lecture/keynote address on *Wired, Wireless & MANET's Simulation*, in National Level Workshop on *Wired, Wireless & MANET's Simulation using NS-2*, March 12-13, 2013 organized by CENSA, EWIT & ISTE, Bangalore.
17. Delivered lecture on *Overview of Wireless Communication & Introduction to Wireless Sensor Network*, in National Level Seminar on 'Latest trends in Wireless Communication (NSWC 2013)', February 15-16, 2013 organized by Department of Electronics, Christ University, Bangalore.
18. Delivered lead lecture on *Advanced Research Trends in Electronics & Communication Technology* at **National Conference on Electronics and Communication Technology (NCAECT-2012)** organized by Dept. of Electronics, Kuvempu University, Shankaraghatta, held on 18th May, 2012.
19. Delivered Keynote address on *Emerging Technologies in Electronics* at Symposia organized by Sheshadripuram First Grade College, Yelahanka, Bangalore, held on 15-16th December, 2011.
20. Delivered lecture on *A Case study : Nine profile & Nine segment Temperature Programmer for Mashing Apparatus* in **National Level Workshop on 'Electronic Instrumentation Applications'**, September 7-8, 2011 organized by Department of Electronics, Christ University, Bangalore.
21. Delivered lecture on *Introduction to implementation of Single Purpose Processor* in **UGC Sponsored two days state level workshop/seminars on VLSI and VHDL**, January 30, 2010 at Sree Veerendra Patil Degree college of Science, Arts & commerce, Bangalore.
22. Delivered lecture on *Survey of Software Architecture and RTOS* in **UGC Sponsored two days state level workshop/seminars on Emerging Trends in Embedded Systems**", November 3, 2009 at Vijaya college, Bangalore.
23. Chaired technical presentation session and delivered lecture on *Introduction to Embedded Technology* in **UGC Sponsored state level seminars on New Frontiers in the Development of Science Technology—Embedded Technology**, April 17, 2009 at BMS college for Women, Bangalore.
24. Delivered lecture on *Microcontroller Interfacing* in **UGC Sponsored Workshop on 'Microcontroller and Embedded Systems'** September 19 -20, 2008 at Christ University, Bangalore.

Refresher course

1. Delivered a lecture on *Treads in present and future wireless technology* in Orientation program organized by UGC-HRDC, Bangalore University, Bangalore, 10th February 2020.

2. Delivered a lecture on *Embedded system and Advanced communication: an introduction* at **Refresher Course** in ICT organized by UGC-HRDC, Bangalore University, Bangalore, 11th September 2018.
3. Delivered a lecture as resource person on *Advancement in wireless technology, embedded system and Wireless Sensor Networks* at **Refresher Course** in Natural and Bio science organized by UGC-HRDC, Goa University, Goa, 14th & 15th April 2017 (4 sessions).
4. Delivered a lecture on *Evolution and advancement in telecommunication and embedded system* at **Refresher Course** in ICT organized by UGC-HRDC, Bangalore University, Bangalore, 19th November 2015.
5. Delivered a lecture on *Recent advancement in Electronics: An overview*, at **Refresher Course** in **Basic Sciences** organized by UGC-HRDC, Bangalore University, Bangalore, 23rd July 2015
6. Delivered a lecture on *Overview of Control System* and *Introduction to 8086 Microprocessor* at **Refresher Course** in Physics and Electronics organized by CU-Academic Staff College, Christ University, Bangalore, on 25th April 2013
7. Delivered a lecture on *Technological advancement in Electronics* at **Refresher Course** in Physics organized by UGC-Academic Staff College Bangalore University, Bangalore, 2nd April 2013
8. Delivered a lecture on *Recent Trends in Electronics* at **Refresher Course** in ICT organized by UGC-Academic Staff College Bangalore University, Bangalore, 24th December 2010.
9. Delivered a lecture on *Microcontroller Interfacing* at **Refresher Course** in Electronics organized by Department of Electronics & UGC-Academic Staff College, Goa University, Goa, 13th April 2009.
10. Delivered a lecture on *Embedded system Design* at **Refresher Course** in Computer Science “Current Trends in Computing” organized by Department Of Computer Science & Applications with UGC-Academic Staff College Bangalore University, Banaglore, 8th April 2009.

Invited Talks/Special Lectures

1. Delivered a Keynote address on *Emerging Trends in Wireless communication* at CELESTRA-2K16 organized by Sheshadripuram First Grade College, Yelahanka, Bangalore, held on 8th March, 2016
2. Delivered a special lecture on **Recent Advances in Mobile Broadband Communication & WSN**, at Dept. of Electronics, The Oxford College Of Science, Bangalore on 12th February 2016.
3. Delivered a lecture on *Recent Trends in Electronics and Communication*, at Dept. of Physics (PG), Christ University, Bangalore on 24th January 2013.

4. Delivered a lecture on *Embedded System in present World* in Sadhana Club inauguration, held on 7th April, 2011 at Surana College (PG campus), Bangalore.
5. Delivered a lecture on *Trends and Development in Electronics* at Dept. of Electronics, Jain University, on 9th March 2010.
6. Delivered a lecture on *Role of Embedded System in today's Digital World* in **Vijnana Sangam** one days Experts Multiface Interaction on 5th March 2010 Surana College, Bangalore.
7. Delivered a lecture on *Embedded system Design* in **Teachers Training Program** organized by Department Of Electronics Jain University, Bangalore, 19th August 2009.
8. Delivered a lecture on *Introduction to Embedded Technology* at National college, Bangalore, on 17th June 2009, Organized by The Bangalore Science Forum (Regd).
9. Delivered a lecture on *Introduction to Embedded system* at Dept. of Electronics, Basaveshwara College of Commerce, Arts & Science, on 29th April 2009.
10. Delivered a special lecture on *Microprocessors* in the refresher course for teachers held at Department of Electronics, Jain college, Bangalore, during September 2006.

Completed Project details with funding agency, funding, time frame and title:-

1. Agency: Bangalore University Inter disciplinary project

Date of sanction: 10-7-2004

Duration: 3 years.

Grant: Rs. 300000.00

Status: Completed

Title: Characterisation and study of reactivity of nano-size crystallites of transition metal compounds and complexes with automatic electrobalance (thermogravimetric analyser), x-ray diffraction and mossbauer effect.

2. Agency: UGC

Date of sanction: 1-2-2010

Duration: 3 years.

Grant: **Rs. 1168987** /-

Status: Completed.

Title: *Performance Evaluation of QoS In WiMAX IEEE802.16e Std*

- Agency: BBMP (Consultancy)

Date of sanction: 4-8-2018

Grant: **Rs. 3,00,000** /-

Status: ongoing.

Title: *Technical Consultancy service for Providing and Installation of Surveillance Cameras in selected Arterial and Sub arterial roads in Bangalore*

PhD Guided

Sl.No	Name	Topic
1	Sandhya Kulakarni	Performance Evaluation Of Mobile And Mobile Multi-Hop Relay Wimax Mac Layer
2	H.J. Thontadharya	QoS Enhancement and Performance Evaluation in Mobile WiMAX
3	G. Ravi kolarkar	Electrical Switching, Thermal and Optical Studies on Thallium Doped In-Se Glasses
4	Subramanya Bhat	<i>Adhoc On-demand Link Quality Aware Route Search Protocol</i> ” for IEEE 802.15.4 and <i>“Link Quality based Power Efficient Routing Protocol”</i> for IEEE 802.11 standard
5	Shwetha D	Quality of Service Enhancement in Mobile and Mobile Multi-Hop Relay WiMAX
6	Mohankumar N M	Performance Evaluation of novel algorithms for betterment of QoE for multimedia services over LTE network
7	Swetha	Performance Evaluation of Proposed Scheduling Algorithms for Enhancement of Quality of Service in LTE Network
8	Suhas K R	Performance Evaluation of Novel Algorithms for Streaming Multimedia Over Ad Hoc Networks

PhD Students currently working

Sl.No	Name	Topic
1	Jyothi V	Performance evaluation and implementation of proposed efficient routing protocols of WSN
2	Mohana H K	Enhancement of spectral efficiency using multihop technique and improved air-interface in LTE
3	Bhavya Shree S B	Performance enhancement of hierarchical routing protocol for Ad-hoc networks
4	Ramanuja H S	Design and Performance evaluation of novel algorithms to support advanced multimedia applications and QoS optimization in LTE networks.

M. Tech Projects Guided

1. Performance Evaluation of Adaptive Modulation and Coding schemes for LTE systems- **Krishna Teja Yadav CH.T**, Bangalore Institute of Technology (BIT), VTU, August-2014 to July 2015.
2. Performance study of Handover mechanism in LTE - **Bheem Rao K**, Bangalore Institute of Technology (BIT), VTU, August-2014 to July 2015.
3. Implementation of Ad hoc On-Demand Multipath Distance Vector (AOMDV) - **Swathi**, M.Tech Computer Science, East West Institute of Technology, VTU, August-2013 to July 2014.
4. Implementation of Link Quality Based Power Efficient Routing Protocol- **Bhagyashree.K**, M.Tech Digital Electronics, East West Institute of Technology, VTU, August-2013 to July 2014.
5. Wireless Video Streaming For Surveillance Application- **Naveen.V**, M.Tech Digital Electronics, East West Institute of Technology, VTU, August-2013 to July 2014.
6. Wireless Weather Station Monitoring System Using Modbus- **Raghuram.K.G**, M.Tech Digital Electronics, East West Institute of Technology, VTU, August-2013 to July 2014.
7. Establishing Wireless Sensor Test Bed Using EZ430-RF2500 nodes For Implementation of SimpliciTI Protocol to Monitor Temperature In Industry- **Vedavathi B.S**, M.Tech in Digital Electronics, East West college of Engineering, VTU, August-2012 to July 2013.
8. Implementation of AODV Routing Protocol On Wireless Sensor Network For Real Time Data Collection- Akshaya Y.M, M.Tech Digital Electronics, East West college of Engineering, VTU, August-2012 to July 2013.
9. Implementation of Mobility to Relay Station of IEEE802.16j in QualNet and Performance Evaluation- **Sarasa N R**, M.Tech in Computer Science and Engineering, RNSIT, VTU, August-2011 to July 2012.
10. Performance Evaluation of Reactive and Proactive Routing Protocols for MANET using Simulation and Emulation- **Sunil Kumar N**, M.Tech in Communication System, RVCE, VTU, August-2010 to July 2011.
11. Simulation and Performance study of Multipath based Routing Protocols for Wireless Sensor Networks- **B.R. Goutham**, M.Tech in Communication System, RVCE, VTU, August-2010 to July 2011.