

CURRICULUM VITAE

Dr. M. A. KHADAR BABA

M.E., PhD, FIETE, MISTE.



I. EDUCATIONAL QUALIFICATIONS

Sl. No.	Qualification	University/Board	Year of passing	Institute & Place	Division
1	S.S.C	Board of Secondary Education	1982, March	St. Theresa's RCM High School. Narasipatnam, Visakhapatnam (Dist.)	First Class, 74.5%
2	Intermediate	Board of Intermediate Education	1984, March	P.R Govt. College, Kakinada	First Class, 70.8%
3	B.E. (ECE)	Osmania University	1988, April	Deccan College of Engineering, Hyderabad	First Class, 67.3%
4	M.E. (ECE)	Osmania University	2003, February	University College of Engineering, Osmania University, Hyderabad	First Class, 67.13%
5	Ph D	GITAM University	2016, November	GITAM Institute of Technology, GITAM University.	-

II. Work Experience:

Total Experience: 29 Years

Teaching Experience: 28 years

Industrial Experience: 1 Year

Sl No.	Name of the Institute	Position Held	Duration	
			From	To
1	Nalla Narasimha Reddy Education Society's Group of Institutions	Professor & Head	August'2017	27.02.2021
2	Guru Nanak Institutions Technical Campus	Professor & Head	June'2015	August'2017
3	C M R College of Engineering & Technology	Professor & Head	October'2010	June'2015
4	Guru Nanak Engineering College	Professor & Head	June'2007	October'2010
5	Srinidhi Institute of Science & Technology	Associate Professor	October'2005	May'2007
6	Gandhi Institute of Technology & Management	Assistant Professor	October'2003	October 2005
7	Maharaj Vijayaram Gajapathi Raj College of Engineering	Assistant Professor	February'2003	October'2003
8	Maturi Venkata Subba Rao Engineering College	Assistant Professor	August'2001	February'2003
9	Karshak Engineering College	Senior Lecturer	November'2000	August'2001
10	J B Institute of Engineering & Technology	Senior Lecturer	October'1999	October'2000
11	The Vazir Sultan College of Engineering	Lecturer	September'1997	September'1999
12	Vasvi Polytechnic	Associate Lecturer	June'1991	August'1997

III. Achievements:

- i) As Head of the department, I initiated different academic activities which enhances the growth of the department in terms of results, placements etc.,
- ii) Took a pivotal role in attainment of accreditation status from various statutory bodies such as NBA and NAAC.
- iii) Prepared the department on various fronts so that the department is capable of facing various inspections from the affiliating university (JNTU-Hyderabad).
- iv) Motivated faculty in attaining growth in their academic achievements such as knowledge enhancement, research activities etc.
- v) Motivated students to excel in academics by organizing lectures from field experts as per curriculum and also organized extra-curricular activities (such as Industrial visits, organizing training programs etc.) to bridge the gap between academics and industry.

IV. Journal Publications

SCI/Scopus	International	National
4	18	1

1. "Signal coding approach for GAGAN system for aircraft Navigation". Vol. 4, No. 1, January-June 2012 (ISSN 2231-1254), International Journal of Wireless Communication and Simulation.
2. "GAGAN signal Estimation for progressive signaling in satellite application – Extended filtration approach", Vol. 3, number 2, July-December 2012, pp. 39-43, ISSN: 2229-7340, International Journal of Electronics, Computing and Engineering Education.
3. "GAGAN signal estimation over a variable data rate", Volume -1, Number-2, March 2013, ISSN: 2277-6699, pp. 37-40, International Journal computing, communications and Systems.
4. "Design and implementation of Electronic Voting system using finger print & Zig Bee" Vol-II, Issue-1, IPHV 2110004X, International Journal of Advanced Research and Innovations, ISSN: 2319-9245.
5. "Secured wireless communication for Industrial Automation and control" Volume-2, Issue-1, IPHV 2110004X, International Journal of Advanced Research and Innovations, ISSN: 2319-9245.
6. "Microcontroller based crypto system with key generation unit" published in IOSR journal of Electrical and Electronics Engineering (IOSR -JEEE), ISSN: 2278-1676, Vol.-4, issue-2, (Jan – Feb' 2013), pp, 20-27.
7. "Modified LMS approach to signal estimation in GAGAN system" published in international journal of advances in computer, electrical and electronics engineering, Vol. -3, Issue- 2, ISSN: 2248-9584
8. "Subthreshold Dual Mode Logic" Vol. -3, Issue -2, June-2014, pp 141-148, Bulletin of Electrical engineering and informatics, ISSN: 2089-3191.
9. "Estimation of GPS measurement errors for GAGAN applications" published in IOSR journal of Electronics & Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834, p-ISSN: 2278-8735, Vol. -9, Issue- 6, Version- III (Nov-Dec, 2014), pp. 66-79.
10. "Design and implementation of Embedded server based on ARM and Linux". Published in international journal of advances in computer, Electrical and Electronics Engineering, Vol. -3, Issue-2, ISSN: 2248-9584.
11. "A survey on hybrid neural network- Gray wolf optimization algorithm for melanoma detection" International journal of Advent Technology, Special issue, July -2019, ISSN: 2321-9637.
12. "Effective estimation of GAGAN signals with adaptive equalization" Current Science, Vol. 110, Number 5, 10th March 2016. ISSN: 0011-3891.
13. "Image edge detection based on Swarm optimization techniques" International journal of Recent technology and engineering (IJRTE), ISSN: 2277-3878 (online), Vol. -8, Issue-5, 2020, pp 4324-4329.
14. "Yagi-uda antenna – A performance Investigation" Vol-VIII, No. 4, October'2015. The IUP Journal of the Electrical & Electronics Engineering.
15. "Heart rate measurement with Photoplethysmography through SCADA" Vol. 4, Issue -5, April'2017. International Journal of research. ISSN: 2348-6848.

16. "Dynamic density-controlled traffic light system" Vol. 4, Issue -5, April'2017. International Journal of research. ISSN: 2348-6848.
17. "Achieving Robust Automatic Speech Recognition and Exemplar Enhanced Speech Approach by coupled Dictionaries for improved Signal-to-distortion Ratio", Vol. -4, Issue-5, October'2016. International Journal of Eminent Engineering Technologies.
18. "Implementation of Carry Select Adder using CMOS Full ADDER", Vol. -4, Issue-5, October'2016. International Journal of Eminent Engineering Technologies.
19. "Design and implementation of Electronic Voting system using finger print & Zig Bee" Vol-II, Issue-IX, COMPUSOFT, An international journal of advance computer technology, 2(9), September'2013, ISSN:2320-0790.

V. Books Published:

1. "Adaptive Equalization Techniques to estimate GAGAN signals" published in the year 2017, by Lambert Academic publishing house, Germany, ISBN: 978-620-05256-6.
2. Text book on "Electronic components" published in the year 1997 by Falcon publishers, Hyderabad.

VI. Training & Workshops:

Workshops -Organized	Workshops- Participated
11	14

Workshops/FDPs/Refresher Courses/Conferences organized:

1. Coordinator, short-term course on "Microwave Techniques", jointly organized by the departments of Electronics & Communication Engineering of Srinidhi Institute of Science & Technology and University college of Engineering, Osmania University, Hyderabad. During 9th – 11th October'2006.
2. Convener, 1st international conference organized at Guru Nanak Engineering college, Hyderabad, during 10th to 13th June 2010.
3. Coordinator, 3-day national conference, organized by department of ECE, at CMR college of Engineering & Technology, on Signal Processing & Embedded system applications, during 8th – 10th July 2011.
4. Convener – Two-day National conference organized by department of ECE, CMR college of Engineering & Technology, on Recent Advances in Communication Systems and Electrical Engineering, during 24th & 25th January'2014.
5. Conducted, two-day work-shop on VLSI Design during 4th-5th September'2008, at Guru Nanak Engineering College, Hyderabad.
6. Organized, 3-day workshop on CADENCE Tools during 12th-14th July'2012 at CMR college of Engineering & Technology, Hyderabad.
7. Organized, 3-day workshop on "Simulation lab – Using MATLAB" during 16th to 18th August 2012, at CMR college of Engineering & Technology, Hyderabad.
8. Organized, 3-day, Faculty development program, on "Embedded Systems" during 7th to 9th August, 2013, at CMR college of Engineering & Technology, Hyderabad.

9. Organized, one-week workshop on PCB design & Fabrication for the students of ECE department at CMR college of Engineering & Technology, Hyderabad, during 30th October to 5th November'2014.
10. Organized – one-week FDP, during 16th & 17th December, 2016, on “Image Processing Algorithms & Applications” at Guru Nanak Institutions Technical Campus, Hyderabad.
11. Organized – Two-days’ workshop, during 18th to 24th December, 2014, on “Analog VLSI Design using Cadence Tools” at CMR college of Engineering & Technology, Hyderabad.

List of Workshops/FDPs/Short-term courses attended:

1. Participated in STTP: AICTE-ISTE approved induction program “Intellectual property rights & Innovations” organized at Nalla Narasimha Reddy Education Society’s Group of Institutions, Hyderabad., during 27th November to 2nd December 2017.
2. Participated in, Faculty development program on “Metamaterial Antennas and Optimization Techniques” organized by E&ICT academy and Department of ECE, NIT Warangal, during 3rd to 8th December2018.
3. Participated in Faculty development program on “Raspberry Pi with ARM-11 and Cortex A series” organized by department of ECE, Nalla Narasimha Reddy Education Society’s Group of Institutions, Hyderabad., during 30th April to 5th May 2018.
4. Participated in STTP: AICTE-ISTE approved induction program “Intellectual property intelligence & Patent drafting” organized at Nalla Narasimha Reddy Education Society’s Group of Institutions, Hyderabad., during 17th to 22nd December, 2018.
5. Participated in Faculty development program on “Outcome based Education and & Continuous Quality improvement” organized by IQAC, at Nalla Narasimha Reddy Education Society’s Group of Institutions, Hyderabad., during 13th 15th December 2018.
6. Participated in FDP: AICTE-ISTE approved refresher program on “Teaching with Technology: The scope and practice of the teacher for technology & Science” organized at Nalla Narasimha Reddy Education Society’s Group of Institutions, Hyderabad., during 27th May to 1st June, 2019.
7. Participated in Faculty development program, on “Machine learning in Image and computer vision applications” organized by E&ICT academy and Department of ECE, NIT Warangal, during 24th to 29th June ‘2019.
8. Participated on a three-day workshop on “Teaching Engineering using LABVIEW” organized by department of ECE, CMR college of Engineering & Technology, Hyderabad, during, 22nd to 24th June’2011.
9. Participated in a Two-day workshop on “VLSI Chip Design” organized by department of ECE, Guru Nanak Engineering college, Ibrahimpatnam, Hyderabad, during 4th and 5th September 2008.
10. Participated in a three-day workshop on “TCP/IP networks and protocols” jointly organized by departments of ECE, of SNIST & JNTUH, Hyderabad, during 6th to 8th December 2006.

11. Participated in a Two-day workshop on “Latest Technologies in Electronics & Communications” organized by department of ECE, MVGR college of Engineering Vijayanagaram, during 12th and 13th March 2005.
12. Participated in, STTP, on “Analog Integrated circuit design” organized by department of ECE, NIT Warangal, during 26th June to 1st July 2006
13. Participated in the 2-day course on “Global Positioning System: Augmentation & Applications” conducted during 3-4 April., 2010, The IETE, Hyderabad Centre.
14. Participated in a One-day intensive course on “Smart antennas for wireless communications” organized by NERTU, Osmania University, Hyderabad on 16th December 2002.

VII. Papers in National/international conferences

No. of conferences- organized		No. of conferences - participated	
National	International	National	International
4	3	14	11

Papers presented at international conferences:

1. Presented a paper on “Estimation of white blood cells using microwaves”, at International conference on Bio-medical Electronics and Telecommunications organized by department of ECE, College of Engineering, Andhra University Visakhapatnam, during December’2004.
2. Presented a paper on “Significance of Signal to noise ratio in the context of GAGAN applications”, at 1st International conference on Emerging trends in Signal processing & VLSI design organized by department of ECE, Guru Nanak Engineering college, Hyderabad, during 11th to 13th June’2010
3. Presented a paper on “USB transceiver macro cell interference implementation on FPGA”, at 1st International conference on Emerging trends in Signal processing & VLSI design organized by department of ECE, Guru Nanak Engineering college, Hyderabad, during 11th to 13th June’2010.
4. Presented paper on “performance of measure of Uni-bio metric Iris recognition system based on FAR, FRR, FTC, FTE and HTER, at 1st International conference on Emerging trends in Signal processing & VLSI design organized by department of ECE, Guru Nanak Engineering college, Hyderabad, during 11th to 13th June’2010.
5. Presented a paper on “GAGAN signal estimation over a variable data rate” at international conference on Computing, Communications, Systems and Aeronautics (ICCCSA-2012), organized by department of ECE, Malla Reddy college of Engineering & Technology, Hyderabad, during 30th to 31st March 2012.
6. Presented a paper on “BER estimation for variable SNR in GAGAN applications” at National conference on “Computing Communication & Instrumentation (NCCCI-2012) during 21st & 22nd December’2012, at GITAM University, Hyderabad.

7. Presented a paper on “IR remote controlled water robot using ARM-7”- at an international conference on Industrial Scientific Research Engineering (IISRC). No.3, September’2013, pp. 165-168.
8. Presented a paper on “Training less super resolution enhancement using Euclidean Distance” at 4th International Conference, on Innovations in Electronics & Communication Engineering (ICIECE-2015), during 21st -22nd August 2015.
9. Presented a paper on “A novel algorithm wavelet-based crosstalk suppression cardiac design” at 4th International Conference, on Innovations in Electronics & Communication Engineering (ICIECE-2015), during 21st -22nd August 2015.
10. Presented a paper on “Design and Implementation of Embedded Web Server Based ARM and Linux” at International Conference on Computer & Communication Technologies,2K14, Organized by CMR Technical Campus, Hyderabad, during March, 28-29, 2014.
11. Presented a paper on “Modified LMS approach to signal estimation in GAGAN system” at International Conference on Computer & Communication Technologies,2K14, Organized by CMR Technical Campus, Hyderabad, during March, 28-29, 2014.

Papers presented at National conferences:

1. Presented paper on “5G Green Networking: Enabling Technologies, potentials and Challenges” at National conference, on Recent advances in Electronics & Communication Engineering -2k19(RAECE-2K19), organized by department of ECE, NNRESGI, Hyderabad during 1st & 2nd March’2019.
2. Presented paper on “Smart antenna – Beam forming techniques” at National conference, on Recent advances in Electronics & Communication Engineering -2k19(RAECE-2K19), organized by department of ECE, NNRESGI, Hyderabad during 1st & 2nd March’2019.
3. Presented paper on “LDR based solar panel tracker using Raspberry Pi” at National conference, on Recent advances in Electronics & Communication Engineering - 2k19(RAECE-2K19), organized by department of ECE, NNRESGI, Hyderabad during 1st & 2nd March’2019.
4. Presented paper on “Design and testing of Bi-conical antenna” at National conference, on Recent advances in Electronics & Communication Engineering -2k17(RAECE-2K17), organized by department of ECE, NNRESGI, Hyderabad during 23rd & 24th December’2017.
5. Presented paper on Performance analysis of “Turbo -SPC codes in wireless communications” at National conference on Recent trends in Electronics & Communications conducted by Department of ECE, G. Pulla Reddy College of Engineering, Kurnool on 25th January’2007.
6. Presented a paper on “Adaptive array signal processing for GPS interference rejection” at 41st Mid-term symposium on tracking the Telecom and IT revolution to rural India – Bridging the Digital Divide, organized by IETE center, S V University, Tirupathi, during 9th & 10th April 2010.

7. Presented a paper on Trust computing Environment model in cloud architecture” at National conference on Emerging Technologies and Tools in Mobile phone Applications, during 21st & 22nd October’2011, organized by department of CSE, Annam Acharya Institute of science & Technology, Hyderabad.
8. Presented a paper on “Generation from mini clouds to cloud computing” at National conference on Emerging Technologies and Tools in Mobile phone Applications, during 21st & 22nd October’2011, organized by department of CSE, Annam Acharya Institute of science & Technology, Hyderabad.
9. Presented a paper on Effective estimation of signal in GAGAN system at National conference on Advances in communication technologies, organized by Department of ECE, GIT, GITAM University, Visakhapatnam in the year 2012.
10. Presented a paper on “Acquisition and Tracking of a GPS signal” at National conference on Advances in communication technologies, organized by Department of ECE, GIT, GITAM University, Visakhapatnam in the year 2012.
11. Presented a paper on “GAGAN signal estimation over a highly variant channel” at National conference on Advances in communication Navigation and computer networks, organized by Department of ECE, Andhra University, Visakhapatnam, during 17th & 18th March 2012.
12. Presented a paper on BER estimation for variable SNR in a GAGAN applications at National conference on Computing communication and Instrumentation, organized by Department of ECE, GITAM University, Hyderabad, during, December 2012.
13. Presented a paper on “Multi-dimensional Historical Aggregate Data Management in Unstructured P2P Networks” at National conference on Advances in Communication Technologies (NCACT’2011) during 21-22 January, 2011.orgnized by department of ECE, GITAM Institute of Technology, GITAM University, Visakhapatnam.
14. Presented a paper on “Design of Syntax and Encoding layer in SIP for user agent Soft Phone” at National conference on Signal Processing and Communication (SPCOM-09) during 4-5 December, 2009.orgnized by department of ECE, Malla Reddy College of Engineering for Women, Hyderabad.

VIII. Memberships in Professional Bodies:

Organization Name	Indian Society for Technical Education
Membership Category	Individual
Membership Type	Life Member

Organization Name	IETE
Membership Category	Individual
Membership Type	Fellow

IX. Board Member:

Board Name	Executive Committee, IETE, Hyderabad Center For the duration 2018-20.
Membership Category	Individual
Membership Type	Co-opted Member

(Dr. M A Khadar Baba)