

Ms.M.S.Kavitha

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ACADEMIC QUALIFICATIONS

B.E(EEE)	Alagappa Chettiar College of Engineering and Technology – Secured First Class
M.E(Applied Electronics)	R M K Engineering College, Secured First Class with Distinction
(Ph.D.)(Information & Communication)	Anna University

EXPERIENCE & POSITIONS OF RESPONSIBILITY

Teaching	<ul style="list-style-type: none">Under-Graduate Level – 21 years Subjects Taught: Microprocessor and Microcontroller, Microcontroller Based System Design, Electronic Devices and Circuits, Digital Signal Processing, Digital Logic Circuits, Control Systems, Transmission & Distribution, Electro Magnetic TheoryPost Graduate Level – 14 years
Professional Achievements	<ul style="list-style-type: none">Obtained 10th Rank in Anna University in M.E.Certified QMS Internal Auditor-for ISO certification of the college.
Publications	<ol style="list-style-type: none">Presented a paper entitled “Evolving low power FPGA Based VRC using Genetic Algorithm in National Conference on “Networking and Communication”Published paper in National Conference on Nanoscale Devices and SystemsPublished paper entitled “Analysis of Multilevel Inverter for STATCOM using Fuzzy Controller for Power Factor Improvement” in the International Conference on Electrical, Electronics and Computer Engineering, ICEECE, 2015Published a paper entitled “Traffic Signal based Control of Vehicle Ignition System” in Volume 4 Issue 1-2018 at International Journal of Engineering and Techniques.Published a paper entitled “Forward collision alert on stable vehicles” in Volume 4 Issue 2, Mar – Apr 2018 at International Journal of Engineering and Techniques.Published a paper entitled “FFT Based Reference Signal generation and selective harmonic elimination PWM to minimize harmonics in line using DVR” in Volume 4 Issue 3, 2018 at International Journal of Engineering and Techniques.Published a paper entitled “An optimized algorithm for FPGA architecture

oriented IOT applications” in Volume 52,December 2018 at Cognitive Systems Research,International Journal.

8. Published a paper entitled “Wireless power transfer for Electric Vehicle applications” in Volume 9 Issue 3, March-2019 at at International Journal of Engineering Science and Computing.
9. Published a paper entitled “PIR based enhanced safety system in automobiles” in Volume8 Issue 3, March-2019 International Journal of Innovative Research in Science, Engineering and technology
10. Published a paper entitled “Smart car with zone recognizing feature using RFID System” in Volume8 Issue 3, March-2019 International Journal of Innovative Research in Science, Engineering and technology
11. Published a paper entitled “FSAE Car Electric Powertrain Analysis” in Volume X Issue X, at International Journal of Innovative Technology and Exploring Engineering. volume 82 February 2020
12. Published a paper entitled “An efficient FPGA Architecture for Reconfigurable FFT Processor incorporating an Integration of an Improved CORDIC and Radix-2r algorithm “ in Circuits ,Systems and Signal Processing on May 7th 2020.Volume 39,Issue-5.
13. Published a paper entitled “Autonomous navigation system for pilotless manoevring through waters “in International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 08 | Aug 2020,Pp 4986-4990.
14. Published a paper entitled “Utilization of WSN Modules Using Rssi Localization For Smart Tollgate Automation “in International Journal for Science and Advance Research in Technology (IJSART), Volume 6 Issue 9 – SEPTEMBER 2020, pp-67 to 70.
15. Published a paper entitled “Early Screening Of Covid-19 Pneumonia Patients Using X-Rays By The Developed Artificial Intelligence System “in Turkish Online Journal of Qualitative Inquiry (TOJQI) , Volume 12, Issue 5, May 2021: 2192-2203.
16. Published a paper entitled “Robotic Cubes for the Intellectual Simulation of Kids “in Geintec- Gestao Magazine Innovation and Technologies, ISSN: 2237-0722 Vol. 11 No. 4 (2021),Page no: 3388 to 3399.
17. Published a paper entitled “Knock based Security Console with Fingerprint Sensor “in Geintec- Gestao Magazine Innovation and Technologies, ISSN: 2237-0722 Vol. 11 No. 4 (2021),Page no: 3400 to 3412.

WORKSHOP | FACULTY DEVELOPMENT PROGRAMME

ORGANISED

1. Faculty coordinator for Autobotz AVR workshop conducted by Technophilia Systems in Association with Robotics and Computer Applications Institute of USA held at RMKEC for second years on 23.8.2014 and 24.8.2014 and for

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- third years on 19.8.2014 and 20.8.2014 of EEE Department
2. Organized a session on "Guidance for clearing PACE test" on 2.2.2018 for KPIT Placed students of 2018 batch.
 3. Organized 3 days training on "Honing C language skills" for second and third year CoE-AE students.
 4. Organized a Special guest Lecture on "Technology trends in Automotive Industry" on 24.1.2018 by Mr. Lalith Krishnan.H, software Engineer, WABCO India Limited.
 5. Organized a Special guest Lecture on "VLSI Design flow of a practical chip in Automotive ECU" on 24.2.2018 by Mr. Vijaya Manohar, Staff Engineer, Qualcomm India Private Limited.
 6. Organized a Special guest Lecture on "AUTOTRONICS - Roll of Electronics in Automotive" on 2.3.2018 by Mr. Karthik Krishnan, All India Manager, Bangalore Training Center, Bosch Limited.
 7. Organized a 3 days training program on "Automation using Embedded C" for 2020 batch CoE students (68) to describe the concept of automation of electronics components/devices in our day to day life during 24.5.2018,25.5.2018 and 26.5.2018.
 8. Organized a Special guest Lecture on "Overview on Autotronics-Advanced and Future Development of Vehicles" on 11.08.2018 by Mr.Ganesh Jayaram ,R&D, I/CEE-Electrical and Electronics Department,Mercedes-Benz Research and Development India Private Limited' .
 9. Organized a Special Guest Lecture on "Basics of Automotive and Latest Trends in Automotive Electronics" on 04.01.2019 by Mr. Karthik Krishnan, Deputy Manager, Maruti Suzuki India Limited'
 10. Organized a Special Guest Lecture on "Career opportunities of Electronics Engineers in Automotive Industries and in Research ", on 05.03.2019 by Dr.Esaki Muthu Pandara Kone SHRINATHAN,Research Scientist , Toyata Central Research and Development, Nayogia, Japan
 11. Organized 10 days training on "Embedded System Design using ARM Cortex M4 " by NIELIT(National Institute of Electronics and Information Technology, Ministry of Electronics and Information Technology, Government of India, Kotturpuram from 30.11.2018 to 05.12.2018 (5 Days) at R.M.K Engineering College & 07.01.2019 to 11.01.2019(5 days) at R.M.D Engineering College for 40 CoE students of 2020 batch.
 12. Organized 10 days training on "C Programming For Automotive Electronics" by NIELIT(National Institute of Electronics and Information Technology, Ministry of Electronics and Information Technology,Government of India, Kotturpuram from 19.11.2018 to 29.11.2018 (8 Days) at R.M.K Engineering College & 2.01.2019 to 03.01.2019(2 days) at NIELIT,Kotturpuram for 25 CoE students of 2021 batch.
 13. Organized "C Programming Assessment and Technical Mock Interview" by Alumni students for 2019 batch CoE students on 7.7.2018.
 14. Organized "C Programming Practicing session" for the eligible 44 EEE students to face KPIT interview was done by Alumni students on 12.7.2018.
 15. Organized "C Programming Practicing sessions" for the online test shortlisted students of RMK which was taken care by Enhanced Programming

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Skill faculty during 18.7.2018 to 23.7.2018.

16. Organized “C Programming Assessment and Mock Interview” which has been conducted by Alumni Students under three levels (Basic Programming Skills, Object Oriented Programming Skills, One to One Direct Interview) on 16.02.2019 at R.M.K Engineering College for 2020 batch CoE Students.

17. Organized a Special guest Lecture on “Software stack for Autonomous Vehicles” on 11.1.2020 by Mr. A.Jegan,Assistant Manager, Former KPIT Senior Educator, Automotive ElectronicsConsultant.

18. Organized a Guest lecture on “BOSCH Service Information System ”on 7.2.2020 for RMK students by Mr.Kiran G.Nair,Regional Trainer – South,Bosch Limited.and Mr. Kapil Bishnoi,,Trainer, Bosch Training Center, Bosch limited.

19. Organizing a Special guest Lecture on “Architecture of Electric Vehicles” on 6.3.2020 by Mr. Velmurugan, Senior Trainer,TVS Training and Services.

20. Organized “C Programming Practicing session” for the eligible 2017-21 batch students on 10.3.2020 and 11.3.2020

21. Organized “C Programming and Technical Mock Interview” and also “Mini Project Presentation” by Alumni students for 2017-21 batch CoE students on 14.3.2020 by Alumni Students.

22. Organized a Special guest Lecture on “Electrical, Electronics & Communication Engineering in Automotive Industry- Current Trends& Higher Studies Opportunities” on 3.5.2020 by Mr. A. Selva Subramanian, Advanced Product Quality Engineer, Management Group, Michigan, USA.[Alumnus of RMD EEE 2010-2014 Batch]

23. Organized a Special guest Lecture on “Designing an Automotive Control System using Model – Based Design” on 11.5.2020 by Pawankumar Fakatkar,Education Specialist, ECoDe, KPIT Technologies Limited, Pune.

24. Organized a Special guest Lecture on “Introduction to Data Analytics for Electronics Engineers using python” on 14.5.2020 by Shamshudeen J, Project Engineer,Centre for development of Advanced Computing[CDAC]

25. Organized a Special guest Lecture on “Embedded Programming for Automotive Industries” on 23.5.2020 by Sivaranjani.S, Assistant Manager,TVS Training Services,TVS Group of Companies.

26. Organized a Special guest Lecture on “Automotive Embedded Systems” on 3.6.2020 by Mr.Thangaraj, Assistant Manager,TVS Training Services,TVS Group of Companies.

27. Organized a Special guest Lecture on “Basics of AUTOSAR & Autonomous Driving” on 7.6.2020 by Mr.Pramodh Mahalingam,Software Developer, ACTIV (Delphi),Germany.

28. Organized a Special guest Lecture on “World of Automotive Technologies” on 7.6.2020 by Mr. KARTHIK KRISHNAN,Deputy Manager, Maruti Suzuki India Limited, Chennai.

29. Organized a Special guest Lecture on “World of Automotive Technologies” on 15.5.2021 by Mr. KARTHIK KRISHNAN,Deputy Manager, Maruti Suzuki India

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	<p>Limited, Chennai.</p> <p>30. Organized a Special guest Lecture on “Automotive Braking Systems” on 17.5.2021 by D.VISHNUMOORTHY, Associate Software Engineer, Robert Bosch Engineering And Business Solutions Private (RBEI) Limited, Coimbatore .</p> <p>31. Training on Impact of Electronics in Automotive Industry by Mr.S.Karthick, Founder, Wing wizard Industry Skills Development Centre on 21.5.2021.</p> <p>32. Organized a Special guest Lecture on “Overview of In-Vehicle Networking” on 22.5.2021 by Mr.N.Shyam, Software Developer, Mindtree .</p> <p>33. C Programming Assessment through Hacker Earth was conducted for 2022 batch CoE Students on 24.5.2021.</p> <p>34. Organized a Four days of training on “VEHICLE DIAGNOSTICS BASICS (OBD) AND MEASUREMENT & TESTING OF SENSORS AND ACTUATORS” for 2022 students during 02.06.2021 to 05.06.2021 by Mr. Kiran.G.Nair, Regional Trainer-SouthBOSCH LIMITED, Bangalore.</p> <p>35. Organized a Two days of introductory training on MATLAB and Simulink “Contol Design and Modeling And Simulation of Hybrid Electric Vehicles” for CoE students during 11.06.2021 to 12.06.2021 by Mr.CH.Raveendra Reddy, Designtech Systems Private Limited.</p> <p>36. Organized “C Programming Assessment and Mock Interview” which has been conducted by Alumni Students under three levels (Basic Programming Skills, Object Oriented Programming Skills, One to One Direct Interview) on 4.9.2021 virtually for 2021 batch CoE Students.</p>
Academic Administration	<ul style="list-style-type: none">• Department Alumni Coordinator• Mini Project Competition Coordinator• Counselor for 21 Students in every batch• College Day Committee Member.• Involved in NBA Work in Department.• SPoC for CoE-Automotive Electronics• TEDx Club incharge of Department
Life Member	Indian Society for Technical Education (ISTE) The Institute of Engineers(India),(IEI)
My strength	<ul style="list-style-type: none">• Unparalleled commitment & zeal for excellence• Can motivate students• Trust in God
My weakness	<ul style="list-style-type: none">• Very Sensitive• Reluctant to decline the request/task
My passion	<ul style="list-style-type: none">• Teaching and being with students
Languages Known	English [R, W, S], Tamil [R, W, S]
Hobbies	<ul style="list-style-type: none">• Reading Novels, Travelling, Admiring the nature, Listening to Music