Rashmi M. Kittali

M.Tech in Digital Communication,
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OBJECTIVE

To impart quality education for students by achieiving excellance in the field of professional competance.
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SKILL SET

- Familiar with following platforms: windows, linex.
- Languages: c, c++,verilog, NS2
- Software skills: Simulink, Cadence system design, Proteus, COMSOL,Xilinx
- Application: Microsoft office word, Microsoft office power point, Adobe reader
- Mathematical Tools: MATLAB/ Simulink

ACADEMIC PROFILE

Degree	College / School name	Board / University	Year	CGPA / Percentage
M.Tech [Digital Communication]	Basaveshwar Engineering College, Bagalkot	VTU - Belagavi	2015 - 2017	9.76 (Gold Medal)
B.E [ECE]	Basaveshwar Engineering College, Bagalkot	VTU - Belagavi	2011 - 2015	9.22
PUC	BVVS Arts and Science Independent PU college,Vidyagiri, Bagalkot	Department of PUE	2009-2011	90.83 (Second Rank)
10th	Basaveshwar International Public School	CBSE	2009	91.6 (Second Rank)

TECHNICAL EXPERTISE

Micro Elecro Mechanical Systems (MEMS), Digital Communication, Wireless Networks, Wireless Communication, Logic Design, Analog and Digital systems, C Programming, Satellite Communication.

ACHIEVEMENTS

- Qualified in GATE 2015 securing score of 355.
- Topper for all the 4 semesters of M.Tech with CGPA of 9.77.
- College topper among all PG departments for the academic year 2015-16.
- Appointed as a member of Internal Quality Assurance Cell (IQAC) in Basaveshwar Engineering College (A), Bagalkot for a period of two years from the academic year 2016-17 to 2017-18.

- I was the leader in managing team for handling the classes and labs related to Advanced C programming subject of 4 credits.
- Awarded as the "Best Outgoing Student" for the year 2015-2016.
- Won the consolation prize in AVISHKAR-14 which is a hardware project exhibition conducted regularly from ECE dept. of BEC, Bagalkot.
- Attended the skill development programme at Hubli conducted by Bangalore ITE.biz 2014.
- Won 2nd prize in carrom at department level.
- 9th rank at the state level in the SIRIGANNADA exam.
- Awarded as "Kannada Minugutare" for scoring highest marks(95) in 10th (CBSE).
- Successfully completed the AIA Technology Program Series for academic year 2008-2009.
- Secured 64% in Unified Cyber Olympiad-2007.

EXPERIENCE

Working as Part-time Lecturer in Govt. Polytechnic, Bagalkot.

Selected for handling 3rd sem Advance C Programming class and Lab during Aug 2016- Jan 2017 in BEC, Bagalkot.

PROJECTS

M.Tech Project

1) **Title**: **Development of Accelerometer model for Adaptive Attitude Estimation using Simulink (Aug 2016 – June 2017)**

   Description: Modeling an accelerometer that is capable of producing acceleration values of upto ±5g. Validation of the results is done by applying various inputs to the model and also by comparing the simulated results with that of the device sensor through Matlab Mobile application and interfacing the actual accelerometer through Arduino board. With this an attempt is made to develop an adaptive attitude estimating system capable of distinguishing between static and dynamic cases for human tracking applications incorporating the kalman filter for reduced mean square error values. **Tool used: MATLAB/ Simulink**

   Team Size: 1

M.Tech Mini project

2) **Title**: **Absorbed Radiation (SAR) in the Human Brain (Jan 2016- June 2016)**

   Description: In this study, using the finite element method via COMSOL Multiphysics software package, specific absorption rate (SAR) distributions and temperature increase are simulated in 3D human head model exposed to the field radiated from cellular phone which consists of square patch antenna. Both Maxwell and bio heat equations with suitable boundary conditions are solved to find SAR and temperature distributions. The maximum log scale of SAR calculated was of the 0.6 while the maximum temperature increase was 0.3 oC for 835 MHz from the antenna. **Tool used: COMSOL Multiphysics**

   Team Size: 1

M.Tech Internship project

3) Title: **Automation of Waste Segregating System Using Programmable Logic Controller (PLC). (Aug 2016- Dec 2016)**

   Description: An automated waste segregation system is developed with the help of PLC which separates out dry and wet waste along with few dry components detection like glass, paper, metal and plastic. **Tool used: INDRA WORKS Engineering, which is firmware of BOSCH REXROTH PLC's.**

   Team Size: 1

B.E. Project

4) **Title**: **Congestion based routing in WSNs (Aug 2014- May 2015)**
   Description: Calculating the congestion factor based on queue length and bandwidth, and then comparing it with threshold. If it exceeds this value, choose the alternate path. **Tool used: gcc (C simulator)**

   Team Size: 4

B.E. Mini Project

5) **Title**: **Automatic Cloth Drying System (Jan 2014-May 2014)**
   Description: Usually in metropolitan cities, people won't find enough space to hang their clothes. So, an assembly is made to hold clothes which will project outwards from the window or balcony in daytime and will automatically retrieves in during night. It also senses the rain, temperature and does function accordingly.

   Team Size: 2

PUBLICATIONS

Books/Chapters/Proceedings Published:

1) Kittali, Rashmi M. and Ashok V. Sutagundar, "Spectrum Sensing and Identification Techniques of Cognitive Radio Networks", Sensing Techniques for Next Generation Cognitive Radio Networks, IGI Global, 2019. 189-202, Web 23 Aug 2018, doi:10.4018/978-1-5225-5354-0.ch011 accessed Aug 2018.

Journals:

1) **Rashmi M. Kittali,** B. G. Sheeparamatti, Arshath Sheeparamatti, "Kalman Filter based Adaptive Attitude Estimation of Rigid Body", International Journal of Engineering Technology Science and Research, Vol 4, Issue 5, pp. 628-634, May- 2017.

Conferences:

1) **Rashmi Kittali,** Mahabaleshwar S. Kakkasageri, A. V. Sutagundar, "Congestion Controlled Adaptive Routing in Wireless Sensor Network", Proc. International Conference on Signal Processing, Communication, Power and Embedded System (SCOPES –2016), October 3-5, 2016, Centurion Univeristy, Paralakhemundi, Odisha

2) Ashok V. Sutagundar, **Rashmi M. Kittali**, "Elliptical Structure Based Data Gathering in Underwater Sensor Network", Proc. International Conference on Signal Processing, Communication, Power and Embedded System (SCOPES –2016),October 3-5, 2016, Centurion Univeristy, Paralakhemundi, Odisha

3) **Rashmi M. Kittali,** A. V. Sutagundar, "Automation of Waste Segregation System using PLC", Proc. First International Conference of Recent Innovations in Engineering and Technology (ICRIET-2016), Bheemanna Khandre Institute of Technology, Bhalki

4) **Rashmi M. Kittali,** B. G. Sheeparamatti, Arshath Sheeparamatti, "Modeling and Analysis of MEMS based Acclerometer in Simulink", IEEE Technically Co-Sponsored International Conference on Smart Technologies for Smart Nation (SmartTechCon2017), Aug 21-23, 2017, REVA University, Bengaluru.

SEMINARS/CONFERENCES/WORKSHOPS/SYMPOSIUMS ATTENDED:

1) Two days International Symposium on " Green Technologies for Sustainable Development", BEC Bagalkot, Feb 24-25, 2017

2) Three days Student Development Programme on "VEINS"- Vehicles in Network Simulation, Jan 17-19, 2017
3) Three days Faculty Development Programme on "Recent Trends in Micro Pressure Sensors & RF MEMS", Oct 20-22, 2016
4) One day workshop on "Electronic Circuit & PCB Design" conducted by TECHYATRA.
5) Five days workshop on CRACKING THE PROGRAMMING INTERVIEW
6) Two days workshop on Electronic System Design and Manufacturing (ESDM), BEC, Bagalkot, Mar 29-30, 2016
7) Workshop on "Research Methadology" , on Dec 19th, 2015, Bagalkot
8) Three days workshop on Smart Teaching Skills for Aspiring Teachers (STAT), BEC ,Bagalkot, Feb 09-11, 2017
9) Industrial Internship in the area of Industrial Automation at Bosch Rexroth Regional Center of Competance for Automation Technologies. BEC, Bagalkot.
10) Three days Faculty Development programme on " Recent Advances in Signal Processing and Communication Networks", BEC, Bagalkot, Mar 17- 19, 2017

Personal Strengths

- Hard working and good at team work.
- Rapid at learning things.

Reference

Dr. P. N. Kulkarni
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Date: 24-09-2017   Rashmi M. Kittali

Place: Navanagar, Bagalkot