V.V. Sangha's

Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari.

Department of Electronics & Communication Engineering

TALENTRONIC TIMES

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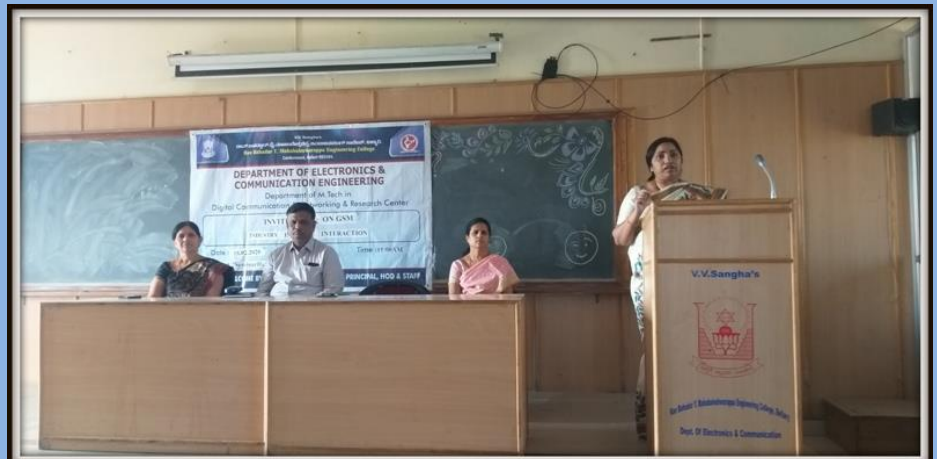
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Student Coordinators:
Mr.Balaji B, Ms.Chetana G
E&CE Department

An invited talk on "Global Systems for Mobile Communication" on 18th February 2020.

One day invited talk on "Personality & Career Development" on 11th March 2020.

ABOUT THE INSTITUTION

Rao Bahadur Y Mahabaleswarappa Engineering College was established in 1980, under the aegis of the Veerasaiva Vidyavardhaka Sangha, Ballari.

The Institute is affiliated to VTU, Belagavi approved by AICTE, New Delhi. The institute offers 8 UG, 7 PG programs and 6 Research centres. The institute has excellent sports facilities, well equipped labs and digital class rooms & in addition it has separate hostel facilities for boys & girls. The Institute is located 50 Kms away from the world famous historical place "Hampi".

LAURELS OF E&CE DEPARTMENT

The Department of Electronics and Communication Engineering is established in the year 1983 with an intake of 40. Presently the intake is 120 with a PG course in Digital Communication & Networking and Research Centre. The department was accredited twice by NBA, New Delhi.

The department is well equipped with state-of-the-art laboratories and research facilities, organizing various Workshops, Seminars/Symposiums & Placement Training's. The Department has procured Rs.50 Lakhs under MODROBS scheme AICTE, NEW DELHI, Rs 20 lakhs Grant from VGST scheme of KFIST Level(1); Rs 3 Lakh from Karnataka Innovation & Technology society, GOK under NAIN scheme; Rs 60,000 from KSTA & KSCST Projects Sponsorship of Rs.80,000.

Twelve students of the department have bagged Gulburga University Ranks & three VTU State Ranks. Two Faculties are awarded with State level VTU Ranks for Post Graduate Studies.

Words of Wisdom

If you do what you've always done, you'll get what you've always gotten.

--Anthony Robbins.

Personal success is achieved when you feel really good about your past, present, and future.

--John Gray

You never achieve success unless you like what you are doing.

--Dale Carnegie

Words of Wisdom

Know that every time you feel weak, you not only hurt yourself but also the cause. Infinite faith and strength are the only conditions of success.

--Swami Vivekananda

All of our dreams can come true if we have the courage to pursue them.

--Walt Disney

QUOTE OF THE ISSUE

If you can't fly then run, if you can't run then walk, if you can't walk then crawl, but whatever you do you have to keep moving forward."
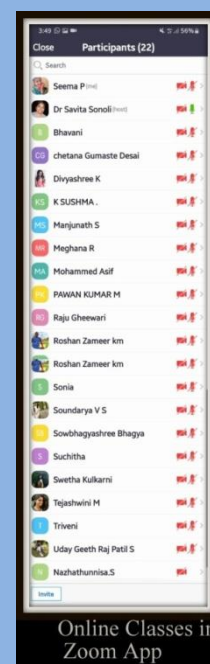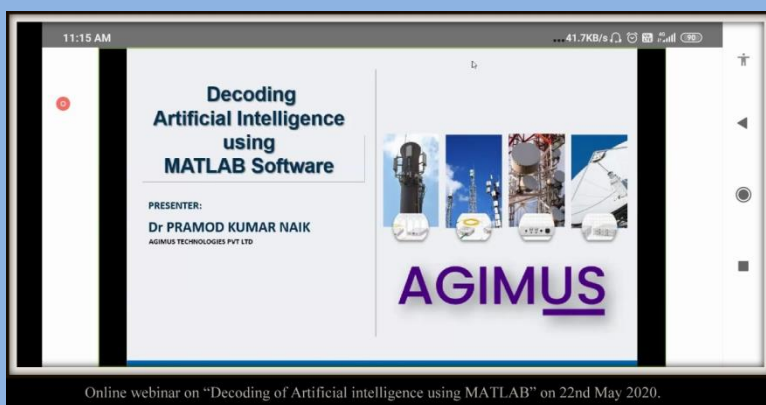
-- Martin Luther King Jr.

EVENTS ORGANIZED

Sl. No	Event Details
1	An invited talk on **"Global Systems for Mobile Communication"** as a part of Industry Institute Interaction with Resource person Mr.N.S.Ghorpade, SDE, Mobile Services, BSNL, Ballari on 18th February 2020 at E&CE Seminar Hall.
2	One day workshop on **"Circuit Simulation using Multisim"** on 7th March 2020 for 4th Sem.
3	One day invited talk on **"Personality & Career Development"** on 11th March 2020 by Dr.C.M.Nagbhushan.
4	Invited talk on **"E-Resource Awareness Program"** on 11th March 2020 by Mr.Girish kulakarni.
5	Industrial Visit to **"Air Traffic Control Centre"**, Ballari on 11th March 2020.
6	One day awareness program for faculties on **"Health & Happiness"** on 13th March 2020 by Mr.Gadepalli Shankar & Dr. Gadepalli Kala Nagaveni.

INFORMATION RELATED TO ONLINE CLASSES & ACTIVITIES DURING COVID 19:

Sl. No	Type
1	**Online Classes:** Online classes were taken through zoom app, staff made subject related videos & shared in Google Class, Youtube, Whatsapp & Telegram Channels.
2	Department has organized Online webinar on **"Decoding of Artificial intelligence using MATLAB"** on 22nd May 2020.
3	Department has organized Online webinar on **"Atmanirbhar Bharath Abhiyaan"** on 31st May 2020.

Online webinar on "Decoding of Artificial intelligence using MATLAB" on 22nd May 2020.

Online Classes in Zoom App

NEWS ABOUT STUDENT PERFORMANCE

TOPPERS OF DEPARTMENT

Position	4th Sem	SGPA	6th Sem	SGPA	8th Sem	SGPA
1	E VAISHNAVI	10	SOUNDARYA V S	10	VANDANA K	9.6
	ANKITHA N G		CHETANA G			
2	S VIDHYA SHREE	9.88	SAI KRISHNA M	9.84	AISHWARYA T	9.3
3	MEHTAJ BANU	9.7	NAGARATHNA	9.69	SRAVANI I	9.2

ACHIEVEMENTS MADE BY STUDENTS IN ACADEMICS

1. Students participated in **"TV5 YUVA 2020"** program at JSW 04th March 2020.

2. Ms. Mushahira & team got funding from from Karnataka Innovation & Technology society, GOK under NAIN scheme for project titled **"Wireless Head motion controlled smart wheelchair for disabled person"** an amount of Rs 3 Lakh guided by Dr.Savita Sonoli.

3. Ms. Mushahira & team got funding from KSCST, GOK for project titled **"Wireless Head motion controlled smart wheelchair for disabled person"** an amount of Rs 5000 guided by Dr.Savita Sonoli.

4. Ms.Chandana H M & team's project has been selected in VTU "AVISHKAR" –project Exhibition/Competition 2020– 2021 for project titled **"Implementation of parallel adder using 45nm technology in cadence tool"** guided by Dr.Savita Sonoli.

5. Ms. Mushahira & team's project has been selected in VTU "AVISHKAR" –project Exhibition/Competition 2020– 2021 for project titled titled **"Wireless Head motion controlled smart wheelchair for disabled person"** guided by Dr.Savita Sonoli.

6. Indian Martial Art Sansthan has selected **Mr.Balaji as "chief instructor of Karnataka State"** to conduct Karate coaching classes and testing all over Karnataka.

7. Students had attended online workshops during lock down due to covid 19 like "Civil Services in India-as a career, Bridging the gap between class Atmosphere and Work atmosphere and Carrier Guidance & Employability Skills, Free MOOC To Complement Engineering Education, Decoding Examinations".

8. Ms.Anusha T J, Ms.D Bhavani, Ms.Nandini K published a paper titled **"Assistive System for Deaf, Dumb or Blind"** in International Journal JETIR, JULY 2020, ISSN-2349-5162.

9. Ms. Naina Lokare , Ms. Sinduja K , Mr. Madhuteja C H , Mr. Naveen Varma P published a paper titled **"An Automatic System for Detecting and Counting RBC and WBC Using Fuzzy Logic"** in International Journal IJARCCE, June 2020 ISSN 2278-1021.

10. Ms.C Indu priya , Ms.Chandana D , Ms.Kavithashree B , Ms.Palangathod Ashwini P published a paper titled "**Electronic – Speech For Deaf And Dumb Using Arduino Mega 2560**" in International Journal IJAREEIE, June 2020, e-ISSN: 2278 – 8875.

11. Mr.Veeresh Shetti, Ms.Shankramma & Ms.Yadavi K K published a paper titled "**Automated Accident detection and Rescue System**" in International Journal IJCESR, Volume VII, Issue IX, 2020.

12. Mr.Akhilesh. K, Mr. Akhilesh. M , Mr.Kamalay Satyanarayana & Mr.Bharath. B. C published a paper titled **"Border Security Implementation using PIR Sensor Border Security Implementation using PIR Sensor"** in International Journal IJESC, Volume 10 Issue No.6 ISSN 2321 3361.

13. Mr.Manoj Padmanabha Murthy. T, Mr. Nithin. N, Ms.Pallavi. N & Mr.V. Rajashekar Published a paper titled **"Performance Analysis of SRAM at Different Technologies using Cadence"** in International Journal IJESC, Volume 10 Issue No.6 ISSN 2321 3361.

14. Ms.G Sirisha, Ms.Chandana H M, Ms.P G Ambika & Ms.Shravani S Published a paper titled **"Implementation of parallel adder using 180nm & 45nm technology in cadence tool" "** in International Journal IRJET, E-ISSN-2395-0056, August 2020.

15. Ms. E Vandana, Ms.Lalita B Kalakonnavar & Ms. P Nikitha, Ms.Pooja K Published a paper titled **"IOT Based Automated Sericulture System"** in International Journal IJESC, August 2020.

FACULTY CONTRIBUTIONS

PUBLICATION OF PAPERS (NATIONAL & INTERNATIONAL)

1. Dr. Savita Sonoli published a paper **titled " Multi-objective solution with PSO algorithm for minimization of torque ripple and speed settling time by using solar-fed 11,9 and 3-level multi-level inverter with vector control of induction motor"** in International Journal of Power Electronics and Drive System (IJPEDS), Vol. 11, No. 2, June 2020, pp. 827~832, ISSN: 2088-8694, DOI: 10.11591/ijpeds.v11.i2.pp827-832.

2. Mrs.Manasa K Chigateri, Mr.Md.M. Zakirulla & Mr.Khaja Moinuddin published a paper titled **"An Impact of Black Hole Attack on AODVRouting Protocol in MANETS Using NS2 Tool"** in International Journal of Innovative Research in Computer and Communication Engineering, Vol. 8, Issue 3, March 2020, ISSN: 2320-9801.

3. Ms. Rohini H.M, published a paper titled **"An Automatic System for Detecting and Counting RBC and WBC Using Fuzzy Logic"** in International Journal IJARCCE, June 2020 ISSN 2278-1021.

4. Mr. Lokesh published a paper titled "**Electronic – Speech for Deaf And Dumb Using Arduino Mega 2560**" in International Journal IJAREEIE, June 2020, e-ISSN: 2278 – 8875.

5. Mrs.Chinna V Gowdar published a paper titled "**Automated Accident detection and Rescue System**" in International Journal IJCESR, Volume VII, Issue IX, 2020.

6. Mr.Sharana Basavaraj B, published a paper titled **"Assistive System for Deaf, Dumb Or Blind"** in International Journal JETIR, JULY 2020, ISSN-2349-5162.

7. Mrs.Anitha A Published a paper titled **"Border Security Implementation using PIR Sensor Border Security Implementation using PIR Sensor"** in International Journal IJESC, Volume 10 Issue No.6 ISSN 2321 3361.

8. Mr. Sharanagouda. V Patil Published a paper titled **"Performance Analysis of SRAM at Different Technologies using Cadence"** in International Journal IJESC, Volume 10 Issue No.6 ISSN 2321 3361.

9. Dr. Savita Sonoli published a paper titled **"Implementation of parallel adder using 180nm & 45nm technology in cadence tool" "** in International Journal IRJET, E-ISSN-2395-0056, August 2020.

10. Mr.Khaja Moinuddin published a paper titled **"IOT Based Automated Sericulture System"** in International Journal IJESC, August 2020.

WORKSHOPS PARTICIPATION

1. Faculties had attended online workshops such as Investing Time During Lockdown, Satellite and automation, Investing Time During Lockdown, Body breath mind free, Decoding Examination, Strategic Planning & Best Practices, Satellite & Automation.

2. Faculties had attended online quizzes related to NBA, NAAC, IPR, Electrical Engineering, Covid-19 Awareness, Robotics & AI, Outcome based education in NBA Accreditation Process.

RESEARCH WORK

1. Department has been sanctioned Rs 20 lakhs Grant from VGST scheme of KFIST Level(1) for the project titled **"Establishment of lab for VLSI design with current technology".**

2. Dr. Savita Sonoli, Dr.Shivakumar, Dr. Shashidhara S M, Dr. Rohita U, Dr. Prabhavathi S and Dr. Netravathi M are registered as Research Supervisors at ECE Research Centre, RYMEC.

3. Dr. Savita Sonoli is guiding Ph.D Research scholars Mr.Naveen I G, Mr.G Shashibhushan, Mr.Mahindra.B.M, Mrs.Chinna.V.Goudar & Mrs. Manasa K C registered under VTU, Belagavi.

4. Dr.Prabavathi S is guiding Ph.D Research scholars Mr.Khaja Mouiniddun & Ms.Rohini H M registered under VTU, Belagavi.

5. Mrs.Rakhee Patil, Mrs.Girija Vani, Mr.Surendranath.H, Mrs.Suvarna Patil, Mr.Phanindra Reddy, Mr. Manjunath.K.M Mr.Prashanth Keni, Mrs. Manasa.K.C, Mr.Khaja Mouiniddun & Ms.Rohini H M are registered for Ph.D under VTU, Belagavi.

6. Mrs.Asha Kulkarni completed Comprehensive Viva Voce under the guidance of Dr.Shashidhar.H.M

MOU

The Department has signed MOU with CoreEL Technologies India Pvt. Ltd., Bengaluru, Advanced Electronic Systems (ALS), Bengaluru, Pragna Microdesigns, Bengaluru, BSNL Mysore and CoStuCo Hyderabad.
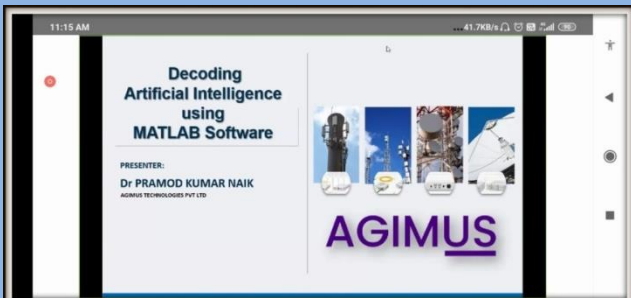
EVENTS PHOTO GALLERY

one day awareness program for faculties on "Health & Happiness" on 13th March 2020

Invited talk on "E-Resource Awareness Program" on 11th March 2020.

Online webinar on "Decoding of Artificial intelligence using MATLAB" on 22nd May 2020.

Mr.B.Suresh, Alumni 1990-94 batch presenting online webinar on "Atmanirbhar Bharath Abhiyaan" on 31st May 2020.

Industrial Visit to Air Traffic Control Centre, Ballari on 11th March 2020

One day invited talk on "Personality & Career Development" on 11th March 2020.

VISION, MISSION, PO'S, PSO'S & PEO'S

VISION OF E&CE DEPARTMENT

To Produce Professionally Excellent, Knowledgeable, Globally Competitive, Socially Responsible Electronics & Communication Engineers and Entrepreneurs.

MISSION OF E&CE DEPARTMENT

M1: To provide quality education in Electronics & Communication Engineering.

M2: To establish a Continuous Industry-Institute Interaction, Participation and Collaboration to Contribute Skilled Electronics and Communication Engineers.

M3: To develop Human Values, Social Values, Entrepreneurship Skills and Professional Ethics among the Technocrats.

M4: To focus on Innovation and Development of Technologies by Engaging in Electronics and Communication Research areas.

PROGRAM OUTCOMES (PO'S)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

1. Ability to Design, Develop and Test the Electronics circuits & Communication Systems.

2. Ability to develop excellent programming and problem solving skills in the field of embedded system.

PROGRAM EDUCATIONAL OBJECTIVE'S (PEO'S)

1. Graduates of Electronics & Communication Engineering course will have Successful Professional Career.

2. Graduates of Electronics & Communication Engineering course will pursue Higher Education or to become an Entrepreneur.

3. Graduates of Electronics & Communication Engineering course will have ability for Lifelong Learning and to serve the Society.