

October 2021 Volume 9 | ISSUE 2



V.V. Sangha's

Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari.
Department of Electronics & Communication Engineering



TALENTRONIC TIMES



Visit Us: www.rymec.in/EC.aspx. E-Mail Us: rymec.ece@gmail.com.

Management

Sri Allum Channappa
Vice President, VV Sangha, Ballari
Chairman, RYMEC, Ballari.

Editorial Committee:

Editor-in-Chief:

Dr. T. Hanumantha Reddy,
Principal, RYMEC, Ballari.

Associate Editor-in-Chief:

Dr. Savita Sonoli,
Vice Principal, RYMEC,
HOD, ECE Dept.

Dr. Prabhavathi. S,

Professor, ECE Dept.

Editors:

Mr. Lokesh. K. S

Mr. Sharana Basavaraj. B

Assistant Professors,
E&CE Department, RYMEC.

Student Coordinators:

Mr. Balaji B, Ms. Chetana G

E&CE Department



Inaugural Function 2nd International Virtual Conference on "Futuristic Trends in Embedded Systems and Networking" ICFTEN 2021 on 7th & 8th July 2021.



Department Of E & CE Batch. 2017-2021

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), 3 Lakhs from NAIN & KSCST Projects sponsorship of Rs. 1 Lakh.

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

Words of Wisdom

If we had to overcome every possible objection before we got started, then nothing - absolutely nothing – would ever get accomplished.

--Richard Carlson

Don't wait. The time will never be just right.

--Napoleon Hill

There is more treasure in books than in all the pirates' loot on Treasure Island ...and best of all; you can enjoy these riches every day of your life.

--Walt Disney

Words of Wisdom

For virtually everything that you want to do there are books and courses on how to do it.

--Jack Canfield

The person who won't read has no advantage over the person who can't read.

--Mark Twain

QUOTE OF THE ISSUE

By failing to prepare, you are preparing to fail.

--Benjamin Franklin

EVENTS ORGANIZED

Sl. No	Event Details
1	Five days National webinar on “Intellectual Property & IP Management for Start-Up” from 26 th to 30 th April 2021.
2	2nd International Virtual Conference on “Futuristic Trends in Embedded Systems and Networking” ICFTEN 2021 on 7 th & 8 th July 2021.
3	“Talentronics” organized on 3 rd August 2021.
4	“Project Exhibition and Competition” organized on 4 th August 2021.
5	“Farewell day” for final year students organized on 7 th August 2021.
6	Six days Workshop on online mode “Basics of Machine Learning Using Python” from 30 th Aug to Sep 4 th 2021.
7	Department Virtual Alumni Meet -2021 “APOORVA MILANA” conducted on 18 th September 2021.



Farewell Day organized on 7th August 2021.



“Talentronics” organized on 3rd August 2021.

NEWS ABOUT STUDENT PERFORMANCE

Placement

56 Students are Placement With Multiple Offer Letters From Reputed Companies Such As TCS, Accenture, Jaro Education, Mindtree, Infosys, Tech Mahindra, IBM, Inmovidu, Capgemini, Maveric Systems, Cognizant, Mphasis, Deloitte, Verzeo, Nobroker.Com.

TOPPERS OF DEPARTMENT

Position	4 th Sem	SGPA	6 th Sem	SGPA	8 th Sem	SGPA
1	MANOJ KUMAR K	9.88	MEHTAJ BANU	9	NAGARATHNA	9.60
2	SANA SAMREEN	9	E VAISHNAVI	9	CHETANA G	9.45
					M SUCHITHA	
					Y ANUSHA	
3	SREEKAR R	9	DIKSHITHA V N	9	SOUNDARYA V S	9.05
					C RUCHITHA	

ACHIEVEMENTS MADE BY STUDENTS IN ACADEMICS:

1. Seema P,K Swetha, Triveni, Sonia S received **Best Project Award for “Design and fabrication of low cost MEMS based listening device for hearing impaired” KSTA sponsored Project Exhibition 2021** held on 19th July 2021 @ SJCIT Chikkaballapur.
2. Akash H participated in **7 Days LEAD LEADERSHIP Program 2020** from 12th Dec 2020 to 18th Dec 2020.
3. Pallavi Nayaka, Nagarathna, Shobha Snea Tambekar received **“Best Paper” Award for “Child rescue System from Open Borewell using Robot”** - in ICFTEN-2021.
4. Soundarya V S, Uday Geeth Raj , Tejaswini M, Nayum Pasha received **“Best Paper” Award for “Disinfectant Robot”** - in ICFTEN-2021.
5. S Srinidhi, Sadia Tasneem, Harshitha B, POOJA D received **“Best Presentation” Award for “Detection of Covid 19 symptoms using Arduino”** - in ICFTEN-2021.
6. K Sai Swaroop, Ranjita GH, M Jyothi S T Sinduja received **“Best Paper” Award for “Sun Tracker Turret”** - in ICFTEN-2021.
7. Ms. Sreelakshmi & team received 6000 sponsorship from KSCST for the project titled **“VOICE AND GESTURE CONTROLLED SMART VEHICLE FOR PHYSICALLY CHALLENGED INTEGRATED WITH HOME AUTOMATION”** Under the guidance of Dr.S.Prabhavathi.
8. Mr. Balaji & team received 8000 sponsorship from KSCST for the project titled **“TOI STEREOPTICON FOR RURAL E-LEARNING EDUCATION SYSTEM”** Under the guidance of Mr. Prashanth Keni.
9. Mr. Sri Charan R & team received 6000 sponsorship from KSCST for the project titled **“AUTOMATIC EYEBALL CONTROLLED ASSISTIVE SYSTEM FOR THE DIFFERENTLY ABLED”** Under the guidance of Mrs. Suvarna S Patil.

FACULTY CONTRIBUTIONS

PUBLICATION OF PAPERS (NATIONAL & INTERNATIONAL)

1. Mr.Lokesh K S presented a paper titled **“Basic Medical Check Up Through Online”** in international Conference ICFTEN-2021 on 7th & 8th July 2021.
2. Mr.Khaja Moinuddin presented a paper titled **“Disinfectant Robot”** in ICFTEN-2021.
3. Dr.Savita Sonoli presented a paper titled **“Design and Fabrication of Low Cost MEMS Based Listening Device for Hearing Impaired”** in ICFTEN-2021.
4. Mrs.Chinna V Gowdar presented a paper titled **“Smart Shield for Woman Safety”** in ICFTEN-2021.
5. MRS.RAKHEE PATIL presented a paper titled **“An Autonomous Iot Agrobot Controlled over a Google Assistant with Solar Powered Agricultural Machine”** in ICFTEN-2021.
6. Mrs.Girija Vani G presented a paper titled **“IOT Based Self Driving Car”** in ICFTEN-2021.
7. Mr.Sudharshan Banakar presented a paper titled **“Enhancement of ATM Transaction by Implementing Fingerprint Recognition”** in ICFTEN-2021.
8. Mr.Santosh Mugali presented a paper titled **“The Design and Implementation of GPS Controlled Environment Monitoring Robotic System Based On IOT And Arm”** in ICFTEN-2021.
9. Mr.N. Srikanth presented a paper titled **“Sun Tracker Turret”** in ICFTEN-2021.
10. Mr.Prashanth Keni presented a paper titled **“TOI Stereopticon For Rural E-Learning Education System”** in ICFTEN-2021.
11. Mrs.Vani H presented a paper titled **“Pipelined FFT Processor Power Optimization”** in ICFTEN-2021.
12. Mr.Surendranath H presented a paper titled **“Detection of Covid-19 Symptoms Using Arduino”** in ICFTEN-2021.
13. Mr.Sharana Basavaraj B presented a paper titled **“Soldier Navigation and Health Monitoring System”** in ICFTEN-2021.
14. Mr. A Vinay presented a paper titled **“IOT Based Stockpile Management”** in ICFTEN-2021.
15. Dr. Prabhavathi S presented a paper titled **“Child Rescue System from Open Borewells Using Robot”** in ICFTEN-2021.
16. Mrs. Anitha A presented a paper titled **“IOT Enabled Plant Soil Monitoring Wireless Sensor Network”** in ICFTEN-2021.
17. Mrs. Suvarna S Patil presented a paper titled **“Automatic Eye Ball Controlled Assistive System for Differentially abled”** in ICFTEN-2021.
18. Mrs. Ashwini K, Mrs. Manasa K C & Mr.Channaveerana Gouda presented a paper titled **CUSTOMIZED TOOLBOX USING RFID READERS** in ICFTEN-2021.
19. MRS. ROHINI H M presented a paper titled **“SMART PRECISION BASED IRRIGATION SYSTEM USING EMBEDDED SYSTEM AND IOT”** in ICFTEN-2021.
20. Dr. Prabhavathi S presented a paper titled **“Voice and Gesture Controlled Smart Vehicle for Physically Challenged Incorporated with Home Automation”** in ICFTEN-2021.
21. Dr. Prabhavathi S presented a paper titled **“An Efficient Traffic Congestion Monitoring System Using IOT”** in ICFTEN-2021.
22. Dr. Savita Sonoli presented a paper titled **“Performance Analysis Of R-2r Dac Converter Using Cadence Tool”** in ICFTEN-2021.

Research Centre Activities

1. 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.
2. 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.
3. Dr. Prabhavathi S is guiding Ph.D Research scholars Mr. Khaja Mouiniddun & Ms. Rohini H M registered under VTU, Belagavi.
4. Mrs. Rakhee Patil, Mrs. Girija Vani, Mrs. Suvarna Patil, Mr. Phanindra Reddy, Mr. Prashanth Keni, Mrs. Manasa. K.C, Mr. Khaja Mouiniddun & Ms. Rohini H M are registered for Ph.D under VTU, Belagavi.
5. Mrs. Chinna V Gowdar completed Comprehensive Viva Voce under the guidance of Dr. Savita Sonoli.

MOU

The Department has MOU with ENTUPLE Technologies, Bengaluru, Vijayanagara Sri Krishnadevaraya University, Ballari, Knowledge Solutions India A Microsoft –AEP, Tech Trunk Ventures, Hyderabad.

EVENTS PHOTO GALLERY



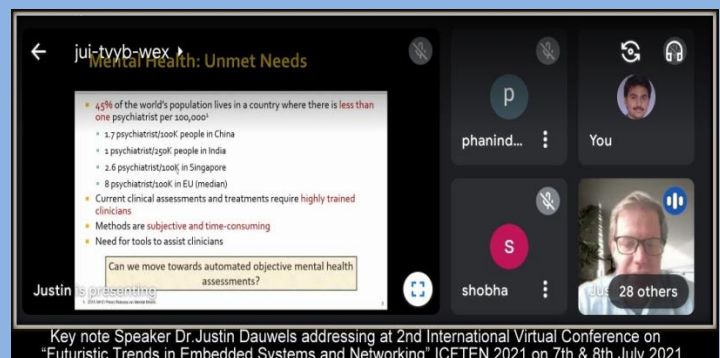
5 days National Webinar on IPR & IP Management for Start-Up.



5 days National webinar on "Intellectual Property & IP Management for Start-Up" from 26th to 30th April 2021.



Inaugural function of 2nd International Virtual Conference on "Futuristic Trends in Embedded Systems and Networking" ICFTEN 2021 on 7th & 8th July 2021.



Key note Speaker Dr. Justin Dauwels addressing at 2nd International Virtual Conference on "Futuristic Trends in Embedded Systems and Networking" ICFTEN 2021 on 7th & 8th July 2021.

EVENTS PHOTO GALLERY



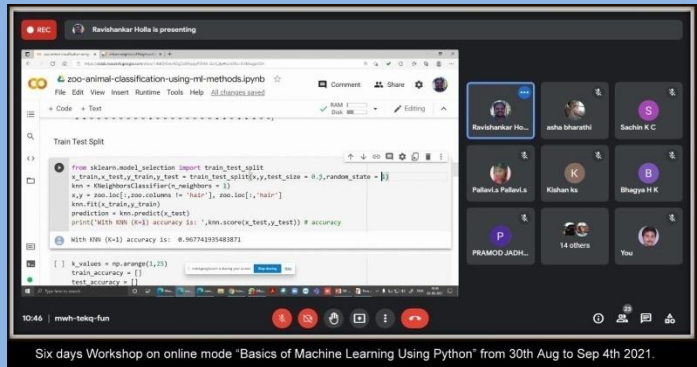
“Project Exhibition and Competition” organized on 4th August 2021.



“Project Exhibition and Competition” organized on 4th August 2021.



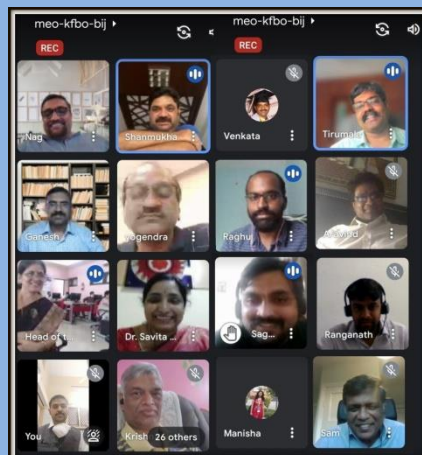
6 days Workshop on “Basics of Machine Learning Using Python” from 30th Aug to Sep 4th 2021.



Six days Workshop on online mode “Basics of Machine Learning Using Python” from 30th Aug to Sep 4th 2021.



Virtual Alumni Meet -2021 “APOORVA MILANA” held on 18th Sep 2021



Department Virtual Alumni Meet -2021 “APOORVA MILANA” conducted on 18th September 2021.

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.