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RV College of Engineering[®]

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi, Accredited
By NAAC, Bengaluru
And NBA, New Delhi

Go, change the world

**Department of Electronics & Instrumentation
Engineering**

“AUTOMATION EXPLORER” NEWSLETTER

Vol 6, Issue-1, 2020

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RV College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a not for profit Trust. RVCE is an Autonomous college. Currently, the institution offers 12 Bachelor, 19 Master Programs and all the departments have research centre's, affiliated to Visvesvaraya Technological University (VTU) Belagavi. The institution has set itself a Vision "Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology". Recent awards and achievements includes "Engineering College of the Year-2015" by the Higher Education Review Magazine, Certified as 'Global League Institute' by Great Place to Study Research Institute (GPSRI), Ranked 63rd in the Country by National Institutional Ranking Framework (NIRF- 2019). The institution got autonomous status from UGC up to 2023-24. The college has 15 research centres recognized by the VTU. The institution has projects funded by organizations such as DST, UGC, CSIR, AICTE, ISRO and many more. The institution has been accredited by NAAC. All the UG programs and eligible PG programs have been accredited multiple times by NBA. About 250 Research Scholars are pursuing Ph.D.

College has 6 Centres of Excellence. Institution has Incubation Centre.

Message from Editor's Desk:

Welcome to this issue of Newsletter from the Department of Electronics and Instrumentation Engineering. We are delighted to launch our Bi-Annual Newsletter ***“AUTOMATION EXPLORER”***. This newsletter is a digital way for us to communicate with our students, faculty members, alumni and industrial partners. This newsletter will provide a glimpse of the departmental activities and achievements. Also, it enlightens the readers about the latest happenings in the department, focusing about different activities like placement, ISA, institutional club activities, student and faculty achievements. We look forward for more activities and achievements for the department to march towards excellence in the future. We would like to thank all teaching, supporting staff and our beloved students for their constant support.

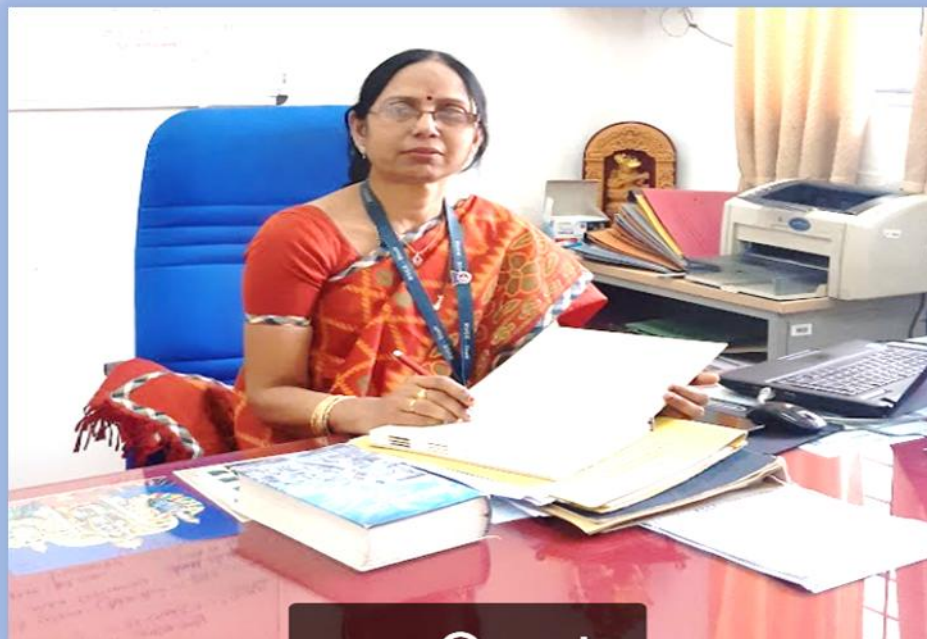
Editorial Committee: *Mrs. Tabitha Janumala, Assistant Professor, Editor*

Dr. CH. Renu Madhavi, HoD

Data Collection & Entry:

Mrs. Chandrakala M R, Programmer G-II, Mr. A V Krishna Murthy, Helper

Message from HoD's Desk



Dr. CH. Renu Madhavi, HoD

Warm greetings!!

I am happy to release this year's first issue of department newsletter. There are many updates to share with respect to the department activities, staff and student achievements, and placements details etc., happened during the last six months.

During this pandemic the department has successfully organised online classes, total 309 sessions were conducted for UG and 46 sessions for PG. The online classes were conducted using the Goto meeting, Zoom, Microsoft teams, Google Meet, and WebEx Cisco platforms. The continuous internal assessments Project work evaluations and technical seminar evaluations happened online using various platforms. During this period conducted online parents teacher meets and Annual Alumni meet. Our students involved in many activities to help society during this pandemic. I am

happy to share that our faculty Dr. Kendaganna Swamy S and technical team of department developed a useful product during this pandemic “Automated Sanitizer Dispenser” which is installed and functional in the Department. Faculty have attended various workshops, FDP s, and webinars online. Taken up the online certification courses. Happy to inform that online webinars were also delivered by the faculty. Our technical staff members too successfully completed certification courses.

Happy to share that this year 84% placements happened until now for the final year students, with an average package of 6.96 LPA. I congratulate Vishakh M M of 8th sem for getting the highest package of 19 LPA offered by TOYOKOH. About 63 students of both 2nd year and 3rd year have enrolled for online internships like AICTE Internshala and other virtual online internships.

I heartily congratulate our final year students Miss. Surabhi for scoring 99.7 percentile in CAT-19 and got admission offer in IIM, Calcutta. Miss. Rima Raj for successfully clearing the GATE with high percentile. Also congratulate Miss.Vidhyashree for getting AESGES Graham Bell Award. Congratulate prefinal year students Mr. Naman Jain and his team secured 2nd position in YANTRA 2020 National level project competition conducted by IIT Mumbai. Also one more prefinal year student Mr. Archith Srivastava got Bronze Honour for participating in the final round of International Astronomy and Astrophysics Competition this year.

Stay Safe & Stay Healthy

Dr. CH. Renu Madhavi
Associate Professor & HoD
Department of EIE

1. Department Vision, Mission, PEOs and PSOs.

Vision

Achieving academic excellence in Instrumentation Technology by adopting interdisciplinary research with a focus on sustainable and inclusive technologies.

Mission

1. To create an environment for students to excel in domain areas and get motivated to involve in interdisciplinary research by utilizing state of the art infrastructure.
2. To impart technical knowledge, encourage experiential learning and develop future professional leaders.
3. To establish industry-academia networking and develop industry-ready students and future entrepreneurs, to meet societal & industrial challenges.
4. To motivate lifelong learning and research in sustainable technologies to find improved solutions for the betterment of society.

Program Educational Objectives (PEOs) of the Department

1. Apply Instrumentation, Electronics, Controls and Automation concepts to develop technical solutions for industrial problems.
2. Exhibit competency in adapting to various industrial challenges and work in inter-disciplinary projects with team spirit and professional ethics for achieving organizational goals.
3. Pursue higher education in technology or management and achieve professional excellence by imbining leadership qualities and communication skills.
4. Become entrepreneurs with a focus on sustainable technologies and develop innovative solutions to meet industrial and societal needs.

Program Specific Outcome (PSOs) of the Department

PSO1: Design, analyse and practice the instrumentation, controls and automation concepts and techniques required for industrial and/or research pursuits resulting in product development, publications or patents.

PSO2: Demonstrate the knowledge of basic science, mathematics, electronic system design and programming for real-time applications, towards developing industrial solutions and become technology leaders of future.

2. M.Tech in Biomedical Signal Processing & Instrumentation

The department of Electronics and Instrumentation Engineering started PG program (M.Tech in Bio Medical Signal Processing and Instrumentation) with an intake of 18 students in the year 2005 affiliated to VTU, Belagavi and reached autonomous status in the year 2016. The PG program has one Professor, Two Associate professors and one Assistant Professor.

Program Educational Objectives (PEOs)

- PEO1:** Apply basic Physiological concepts and provide technical solutions for medical problems.
- PEO2:** Exhibit competency for achieving excellence in Industry, Academics, R&D organizations, Entrepreneurial pursuit and consulting firms.
- PEO3:** Demonstration and develop sustainable biomedical engineering skills for betterment of society and ethics.
- PEO4:** Exhibit leadership qualities and engage in life-long learning through independent study and research.

Program Specific Outcomes (PSO)

- PSO1:** Design and analyse basic and advanced biomedical appliances required for medical domain and research pursuits.
- PSO2:** Apply the concepts of signal and image processing techniques to address the problems in Healthcare.

3. Departmental Activities from JANUARY 2020 to JUNE 2020

The department has always been contributing significantly to the growth of technical education. The ISA - RVCE Student section has organised a talents Day on 20th Jan, 2020 to showcase the cultural and co-cultural activities of students. The students have actively participated and presented the soft skills like singing, playing music and so on.

During the mid of March 2020, due to the pandemic condition of COVID-19 the college was closed, but all the faculty were involved in conducting the online classes using different channels. Various platforms were used to deliver online lectures such as Goto meeting, Google Meet, Microsoft Teams, Zoom, WebEx Cisco etc. 309 online classes were conducted for UG and 46 for PG. Continuous internal assessment was also done online using Exam.net and Quikrn Platforms. Counselling sessions were also conducted to students to guide them and give the updates with respect to the curriculum.

Department has organised an Alumni meet online in the month of June 2020. International Alumni's have also participated in the online meeting sharing their industry experience. Few of the alumni are contributing to the department activities such as board of studies, guiding in framing the curriculum to make the students industry ready.

4. Major Project Details of UG and PG

The students of 8th semester UG and 4th semester PG have taken up the innovative, societal related problems and developed the prototypes to showcase the working of the module. Some of the students executed the problem statements given by the industries of the current era and bridged the gap between the academics and industry standards. The list of projects is given below.

Table 1: List of in house UG projects

Sl.No	Title of the Project
1	IoT Based Grocery Management System
2	Gait Dynamic Sensing Using IMU Sensor
3	Development of Autonomous Navigation System
4	Automatic Brain Tumour Segmentation Using CNN
5	Design and Development of a Communication System for Deaf, Dumb and Blind People
6	Microcontroller based Automated Electric Wheelchair system
7	NI MYRIO Based Self Balancing Robot with Obstacle Avoidance
8	Smart bridge and Flyover Monitoring System Using Module
9	Development of Automated Fingerprint Based Attendance System
10	IoT Based Car Pollution Detection Using AWS
11	Early Detection of Disoriented Lumbar Lordosis Using NI LABVIEW
12	Development of Voting System Powered by ADHAAR Authentication
13	Military Surveillance Robot

Table 2: List of internships UG projects at various organizations

Sl.No	Title of the Project	Name of Organisation
1	Battery Testing Setup-Testing Equipment	Material Scientific Pvt. Ltd.
2	Automation of Supply Chain Planning Using 09 Solution Platform	09 Solutions
3	Server less Computing	RAKUTEN Research India
4	Solution to Functional Testing of a PCBA Controller	LAM Research India
5	Developing an Ecall System in Motorbikes	RBEI, Bengaluru
6	Visualisation of Data In Autonomous Vehicle System	RBEI, Bengaluru
7	Qualitative Analysis of Master Flow	Aurigo Software Technology

Table 3: List of in-house PG projects

Sl. No	Title of the Project
1	Analysis of EMG Signals to Detect Muscle Fatigue
2	Development of Protein Analyser System
3	Design and Development of an Algorithm to find the Truncal Imbalance in Scoliosis X-Ray Image
4	Analysis of Stress Wave Along the Long Bone for identification of Osteoporosis
5	Detecting and Developing a method for early Detection of Oral Potential Malignant Disease

6	Implementation of Body Movement Monitoring System by algorithm	
7	Detection of Sleep Apnea using BCG Signals	
8	Design and Development of Cantilever structure for detection of Latent Tuberculosis	
Table 4: List of internship PG projects at various organizations		
Sl.No	Title of the Project	Name of Organisation
1	Development of an Integrated Digital Stethoscope for Telemedicine	Miisky Technovation Pvt. Ltd

5. Workshops/seminars/FDP/conference/attended by faculty through online.

Table 5: List of workshops/seminars/conference attended by faculty

Sl. No	Conference / Workshops / Seminars attended	Faculty Name	Date
1	Internet of Things (IoT)	Dr. CH. Renu Madhavi	20.04.2020 to 24.04.2020
2	Technology Enabled Teaching and Learning	Dr. Anand Jatti	05.04.2020 to 05.05.2020
3	COURSERA ON IOT offered by UC SANDIEGO, USA	Dr. Padmaja K V	25.04.2020 to 08.05.2020
4	Internet of Things (IoT)	Dr. Kendaganna Swamy S	20.04.2020 to 24.04.2020
5	Aurdino simulation and block coding	Dr. CH. Renu Madhavi	09.05.2020
6	NAAC Awareness Programme for Faculty	Dr. Anand Jatti, Dr. Deepashree Devaraj, Prof. Tabitha Janumala, Prof. Veena Divya K	09.05.2020
7	Faculty Programme on NBA	Dr. Anand Jatti, Dr. Deepashree Devaraj, Prof. Veena Divya K	09.05.2020
8	AICTE sponsored FDP on Artificial Intelligence.	Prof. Tabitha Janumala	30.04.2020 to 04.05.2020
9	International Conference on image processing and capsule networks	Prof. Tabitha Janumala	06.05.2020 to 07.05.2020
10	NAAC Awareness Programme for Faculty	Dr. Padmaja K V, Prof. Harsha, Dr. Sandesh R S, Dr. Rachana S Akki	11.05.2020
11	Faculty Programme on NBA	Dr. Padmaja K V, Prof. Harsha, Dr. Sandesh R S, Dr. Rachana S Akki	11.05.2020
12	Quiz on basic of computers and IT skills	Prof. Tabitha Janumala	09.05.2020
13	Online Quiz on "Data Science"	Prof. Tabitha Janumala	20.05.2020

Sl. No	Conference / Workshops / Seminars attended	Faculty Name	Date
14	Online Quiz on "Digital Image Processing"	Prof. Tabitha Janumala	21.05.2020
15	Online Quiz on "Measurement and Instrumentation"	Prof. Tabitha Janumala	21.05.2020
16	Online Quiz on "Electrical Engineering"	Prof. Tabitha Janumala	21.05.2020
17	FDP on "Tools for online class post COVID-19 "	Prof. Tabitha Janumala	18.05.2020 to 20.05.2020
18	FDP on "Introduction to Data Science using COVID-19 data sets"	Prof. Tabitha Janumala	18.05.2020 to 22.05.2020
19	FDP on "Artificial Intelligence"	Prof. Tabitha Janumala	22.05.2020 to 26.05.2020
20	Online Quiz on "Electrical e Quiz"	Dr. Anand Jatti	29.05.2020
21	National Level Quiz on NAAC	Dr. Padmja K V	31.05.2020
22	National Level Quiz on NBA	Dr. Anand Jatti	31.05.2020
23	National Level Quiz on "Taxonomy of learning"	Dr. Anand Jatti	01.06.2020
24	National level e quiz on Research Methodology	Prof. Veena Divya K	20.05.2020
25	"Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19"	Prof. Veena Divya K	25.05.2020 to 30.05.2020
26	National Level Quiz on NBA	Prof. Tabitha Janumala	04.06.2020
27	Challenges and opportunities in VLSI Design	Dr. Anand Jatti	12.06.2020
28	Simulation driven Innovation for e Mobility	Dr. Anand Jatti	09.06.2020
29	NBA and NAAC accreditation process	Dr. Deepashree Devaraj	04.06.2020 to 08.06.2020
30	Effective usages of Educational technology in teaching learning process as a part of NBA accreditation	Dr. Deepashree Devaraj	22.06.2020 to 26.06.2020
31	Optogenetics and fibre photometry in freely moving lab animals, BIOSIGNAL USA	Dr. Deepashree Devaraj	28.06. 2020

Table 6: List of Workshops /online courses/Webinars attended by technical staff through online

Sl. No	Courses /Workshop / Details	Attended by the Technical Staff	Date
1	Management Skills - Team Leadership Skills Master class 2020	Anil Kumar N A	01.05.2020
2	Faculty Programme on NBA	Anil Kumar N A	11.05.2020
3	Excellent performance in Covid - 19 Pandemic general awareness quiz about the Arogya Setu	Anil Kumar N A	11.05.2020
4	National Level Quiz on NBA	Anil Kumar N A	12.06.2020
5	National Level Quiz on NAAC	Anil Kumar N A	11.06.2020
6	Introduction to Process Control & Instrumentation	Somanna	14.05.2020
7	Lab VIEW Step by Step Beginners Complete Guide	Chandrakala M R	08.05.2020
8	2 Days Webinar on YOGA FOR WELL BEING Organized by RV C E Yoga Club in Association with Physical Education & Sports, RVCE	Chandrakala M R	20.06.2020 to 21.06.2020
9	VLSI Digital Design using Verilog and Hardware	B M Ashoka	10.05.2020
10	Lab VIEW Step by Step Beginners Complete Guide	Pratap N	08.05.2020
11	Basic Electronics for Arduino Makers	R Muralikrishna	16.05.2020
12	Sensors: Everything you Need to know	R Muralikrishna	16.05.2020
13	Excellent performance in Covid - 19 Pandemic general awareness quiz about the Arogya Setu	Krishna Murthy A V	13.05.2020
14	National Level Quiz on NBA	Krishna Murthy A V	12.06.2020
15	National Level Quiz on NAAC	Krishna Murthy A V	11.06.2020
16	2 Days Webinar on YOGA FOR WELL BEING Organized by RV C E Yoga Club in Association with Physical Education & Sports, RVCE	Krishna Murthy A V	20.06.2020 to 21.06.2020

6. Webinars Delivered by Faculty:

Table 7: List of Webinars delivered by faculty

Sl. No	Webinar Details	Delivered by faculty	Date
1	Demo on MOODLE tool for PG program	Dr. Kendaganna Swamy S	05.05.2020
2	Demo on EXAM.net for online TEST	Dr. Kendaganna Swamy S	07.05.2020
3	IUCEE VIRTUAL ACADEMY ON EFFE	Dr. CH. Renu Madhavi	28.05.2020

7. Webinars Attended by faculty through online.

Table 8: List of Webinars attended by faculty

Sl. No	Webinar Details	Attended by faculty	Date
1	The AI Parley	Prof. Harsha	01.05.2020
2	Data Analysis Prediction and forecasting for covid-19(IEEE)	Dr. CH. Renu Madhavi	06.05.2020
3	Virtual IEEE Faculty Conclave	Prof. Veena Divya K	25.04.2020
4	Webinar on "NAAC Accreditation Management System Demo"	Dr. Prasanna Kumar S C	17.04.2020
5	SUS Tech Experience on Online Teaching and Learning, IFEEES-GEDC-IUCEE Global Webinars	Dr. Kendaganna Swamy S	30.03.2020
6	The India first leadership talk	Dr. CH. Renu Madhavi	09.05.2020
7	Application of Multicarrier modulation in broadband communication, WEBINAR IEEE RVCE	Dr. Padmaja K V	07.05.2020
8	Ideal college selection strategy post lockdown stage for B.Tech/BE WEBINAR , SHIKSHA	Dr. Padmaja K V	02.05.2020
9	Webinar on India First Leadership Talk, MHRD's Innovation Cell	Dr. Padmaja K V	09.05.2020
10	Webinar on "NAAC Accreditation Management System Demo"	Dr. Prasanna Kumar S C	17.04.2020
11	Webinar on India First Leadership Talk, MHRD's Innovation Cell	Dr. Rachana S Akki	09.05.2020
12	Webinar on India First Leadership Talk, MHRD's Innovation Cell	Prof. Harsha	09.05.2020
13	Webinar on India First Leadership Talk, MHRD's Innovation Cell	Dr Sandesh R S	09.05.2020
14	Reducing the Entropy of the World - SoCs for Wireless Communication.	Dr. Rachana S Akki	08.05.2020
15	Webinar on "India First leadership Talk" MHRD's Innovation Cell	Prof. Veena Divya K	09.05.2020
16	Webinar on "Challenges in Oil and Natural Gas Sector"	Dr. Anand Jatti	15.05.2020
17	Webinar on "leadership Talk" MHRD's Innovation Cell	Dr. Deepashree Devaraj	16.05.2020
18	Webinar on "Carrier Building as a Bio-Medical Engineer"	Dr. Anand jatti	18.05.2020
19	Hybrid Model for Higher Education, Organized by BCIS, Bengaluru,	Dr. Anand Jatti	28.05.2020
20	Hybrid Model for Higher Education, Organized by BCIS, Bengaluru,	Dr. Padmaja K V	28.05.2020
21	Bio Signal Technologies, USA	Dr. Anand Jatti	28.05.2020
22	Tinker CAD, IUCEE	Dr. Anand Jatti	28.05.2020

23	Turn the Challenges to Opportunities: COVID-19 Pandemics and measures to combat by Higher Education of India	Dr. Anand Jatti	28.05.2020
24	Turn the Challenges to Opportunities: COVID-19 Pandemics and measures to combat by Higher Education of India	Dr. Padmaja K V	28.05.2020
25	NS2/NS3 Based research topics discussion	Dr. Anand Jatti	15.05.2020
26	Fundamentals of Biostatistics	Dr. Deepashree Devaraj	23.05.2020
27	Tinker CAD, IUCEE	Dr. Deepashree Devaraj	28.05.2020
28	Webinar on "Carrier Building as a Bio-Medical Engineer"	Dr. Deepashree Devaraj	18.05.2020
29	Hybrid Model for Higher Education - New Normal - May 28, 2020	Dr. Deepashree Devaraj	28.05.2020
30	Insights to Industry 4.0	Dr. Deepashree Devaraj	29.05.2020
31	Tinker CAD, IUCEE	Dr. Anand Jatti	28.05.2020
32	Challenges faced by MSMEs	Dr. Anand Jatti	25.05.2020
33	Decision Tree	Dr. Anand Jatti	25.05.2020
34	The Future of Supply Chain Ep2	Dr. Anand Jatti	16.05.2020
35	Start up Opportunities in a Post COVID World	Dr. Anand Jatti	16.05.2020
36	Artificial Neural Network	Dr. Anand Jatti	18.05.2020
37	Fundamentals of Bio statistics	Dr. Padmaja K V	23.05.2020
38	Fundamentals of Bio statistics	Prof. Veena Divya K	23.05.2020
39	Organized Webinar for M Tech Students on Mathematical Model for Research	Dr. Padmaja K V	22.05.2020
40	Webinar on Artificial Neural Network	Dr. Prasanna Kumar. S. C	18.05.2020
41	Webinar on Webcast an Advanced OBE-Identifying weaker students & remedial action	Dr. Prasanna Kumar. S. C	21.05.2020
42	Webinar on NAAC Accreditation Management system	Dr. Prasanna Kumar. S. C	22.05.2020
43	Interactive session of HRD Minister Sri Ramesh Pokhriyal Nishank on "Turn the Challenges to Opportunity: COVID 19 Pandemics & Measures to combat by higher education of India" - Organized by NAAC, Bengaluru	Dr. Prasanna Kumar. S. C	28.05.2020
44	Webinar on "Berkeley Public Health in the COVID-19 and Post-COVID World"	Prof. Tabitha Janumala	15.05.2020
45	Webinar on "The Future of Supply Chain - Ep 2 - Technology and Process Innovations"	Prof. Tabitha Janumala	16.05.2020
46	Webinar on "Start up Opportunities in a Post COVID World"	Prof. Tabitha Janumala	16.05.2020
47	Webinar on "Power Generation and Indian Energy Scenario"	Prof. Tabitha Janumala	16.05.2020

48	Webinar on "Microservices Architecture"	Prof. Tabitha Janumala	16.05.2020
49	Webinar on "Artificial Neural Network"	Prof. Tabitha Janumala	18.05.2020
50	Webinar on "Intellectual Property Rights"	Prof. Tabitha Janumala	25.05.2020
51	Webinar on MEDICAL DRIVES, organized by the Department of Electrical Electronics Engineering, Raja Rajeshwari College of Engineering, Bengaluru	Prof. Veena Divya K	16.05.2020
52	Webinar on "Future of AI", Hosted by IETE (Mumbai) in association with Pantech	Prof. Veena Divya K	20.05.2020
53	Webinar on "Outcome Based Education Software"	Prof. Tabitha Janumala	04.06.2020
54	Fundamentals of Biostatistics	Dr. Anand Jatti	23.05.2020
55	E -learning	Dr. Anand Jatti	15.06.2020
56	Webinar for Biomedical Engineers, MINDRAY HEALTHCARE	Dr. Deepashree Devaraj	07.06. 2020

8. Project Proposals submitted for Covid-19 solutions

Table 9: List of proposals sent during Jan to June 2020

Sl. No	Project Details	Submission of proposal date	Name of the agency	Submitted by faculty
1	Respiratory rate Monitor Routed through C-Camp accelerator	03.04.2020	C-Camp	Dr. B G Sudarshan
2	Design and development of respiratory monitor for early diagnosis of COVID-19	05.04.2020	CSIR	Dr. B G Sudarshan
3	Collaborative Research on COVID-19	09.05.2020	Big-5	Dr. B G Sudarshan

9. Awards / Recognition of Faculty



Dr. CH. Renu Madhavi, HoD, Dept. of E&IE has given an interview in Industrial Automation Magazine, March 2020 on the account of Women's Day Special.



Dr. Kendaganna Swamy S and Technical Team of E&IE have developed the non-contact sanitizing



Dr. Kendaganna Swamy S conducted 2 days' workshop on "Metacognitive Hybrid Learning Model for OBE using ICT Tools", at GMIT, Davenagere on 21st – 22nd Jan, 2020.

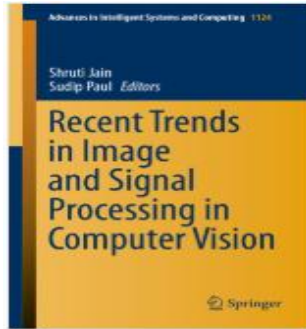
10. Publication details of faculty and students.

1. Dr. Renumadhavi, C.H., Jamuna, N. Chandana, A.N Kallur, R., Sindhu R, Microcontroller-based detection of diabetes and ketosis state using breath sensors, Recent Trends in Image and Signal Processing in Computer Vision, Advances in Intelligent Systems and Computing 1124, DOI: 10.1007.
2. Kumar, N.M., Jatti, A., Venu, K.N, Breast Segmentation & Probable Region Identification for Breast Cancer using the DL-CNN, International Journal of Innovative Technology and Exploring Engineering (IJITEE), , Volume-9 Issue-2, ISSN: 2278-3075, DOI: 10.35940/Kumar, N.M., Jatti, A., Venu, K.N., Breast Cancer segmentation & Classification of image using ResNet, TEST Engineering and Management, Volume 83, SSN: 0193-4120 Page No. 5941-5947.
3. Nagendra Kumar, M., Jatti, A., Mahendra, S.J., Breast cancer classification of image using modified-resnet, Journal of Advanced Research in Dynamical and Control Systems, Volume 12, Issue 3, DOI: 10.5373/JARDCS/V12I3/20201175.
4. Amaresh, C., Jatti, A., Performance Analysis of Data Communication Using Hybrid NoC for Low Latency and High Throughput on FPGA, Advances in Intelligent Systems and Computing, DOI: 10.1007/978-981-15-1451-7_9 book: Cognitive Informatics and Soft Computing, pp.77-96.
5. Tabitha Janumala, Dr. K B Ramesh, "Development of an algorithm for vertebrae identification using Speeded Up Robust Features (SURF) technique in scoliosis X-ray images", International Conference of Image Processing and capsule networks, Thailand.
6. Bhoomika P, Tabitha Janumala, Dr. K B Ramesh, "Measurement of truncal imbalance in scoliosis X Ray images", JETIR, April 2020, Volume 7, Issue 4, (ISSN-2349-5162), pp.14-16.

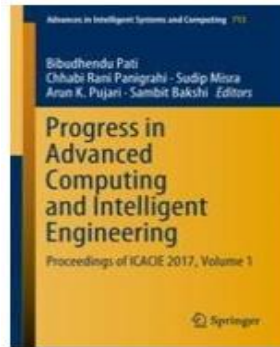
SCOPUS INDEXED JOURNALS

Year	2020	2019	2018	2017	2016	2015
Scopus Indexed Journals	05	15	15	11	08	07

BOOK CHAPTERS



Dr. CH. Renu Madhavi &
Dr. Praveen Kumar Gupta .et.all



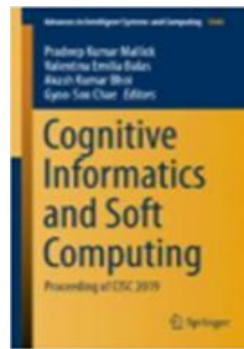
Dr. Vidya M J
Dr. K V Padmaja



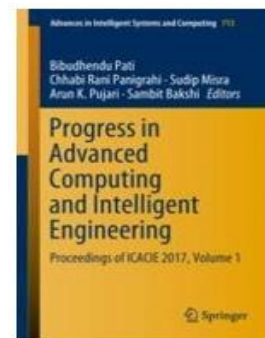
Prof. Rajasree
Dr. Anand Jatti



Dr. Rachana S. Akki
Dr. Kavitha Arunachalam



Mr. C Amaresh
Dr. Anand Jatti



Prof. Veena Divya K
Dr. Anand Jatti

11. Student Achievements

Students have enrolled to various NPTEL online certification courses such as Microprocessor and Microcontrollers, Signals and Systems, Control Systems etc. and completed with Elite score.





SURABHI RAKHECHA 1RV16EI049

Miss. Surabhi, 8th Sem, E&IE Dept. has scored 99.17 percentile in CAT-2019 and enrolled to IIM, Calcutta.

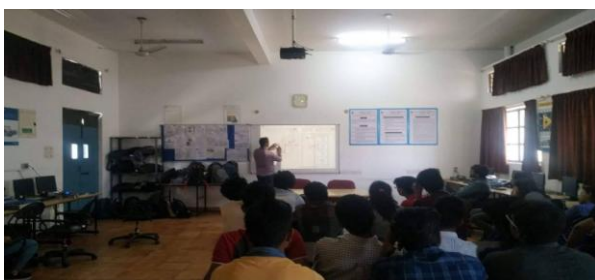


RIMA RAJ

Miss. Rima Raj, 8th Sem, E&IE Dept. has successfully cleared GATE.



Miss. Vidhyashree, 8th Sem, E&IE Dept. has won "Aeges Graham Bell" Award, National talent hunt -2020



Ramakrishna, 8th Sem, E&IE Dept., delivered a talk on IoT based robot control for household activities on 18th Feb, 2020.



Prameeth, Prajwal, 8th Sem, E&IE Dept. & Vishnu, got 09th appreciation prize among 35 groups in Mitsubishi competition held on 15th Feb, 2020.

12. COVID-19 Activities by Students and Faculty.

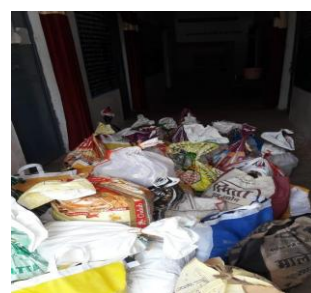
Lakshmi Narayana Reddy .K, 6th Sem, Dept. E&IE, RVCE

During COVID-19 Lakshminarayan Reddy distributed basic needs to a poor people nearly 90 families in villages Karuru, Buduguppa, Matasuguru, Uttanur, Hosahalli and Bairapura (Bellari dist, Siruguppa taluk) He with his school friends group, distributed food items such as: Rice, Dal, Sugar, Onions, Toothpaste, Soaps, Oil and Rava



Sparsh Chhattani, 4th Sem, Dept. E&IE, RVCE

During these times of a pandemic to help the poor, she joined hands with her family who took the initiative to provide necessary amenities to the people of the village Devri, Jabalpur district, Madhya Pradesh. With the support of 7 families, they raised around Rs. 35000. Using this money, they managed to prepare around 53 packets. These packets had everyday necessities like rice, pulses, wheat, salt, sugar, tea leaves, spices, oil, masks, soaps, etc.



They prepared these packets at our home and my father drove to the village on 4th April 2020 and distributed the packets. She also made posters that were put up in the nearby hospitals and parks asking people to stay at home.

Archit Srivatsava, 6th Sem, Dept. E&IE, RVCE

Archit Srivatsava is a member of CARV Hindi club of RVCE. They came up with an innovative video for EARTH DAY which embedded a message regarding the COVID-19 isolations. Archit Srivastava is one of the lead Musician of the club and was a part of the video to help spread the necessary message in these times.

Following is the link to the Instagram post for the video where it was shared for promoting the information: https://www.instagram.com/tv/B_SBVmQjo3S/?utm_source=ig_web_copy_link

13. Faculty Achievements

Dr. Kendaganna swamy S

- Gave a Talk on “How to maintain mental stability during Lockdown Period” in Kannada in social media.
https://m.facebook.com/story.php?story_fbid=2960722800685509&id=100002434543358
- Drew pictures depicting Lord Shiva taking Virus like swallowing Poison .presented in social media.



Dr. B.G. Sudarshan submitted two project proposals for covid-19 detection.

- Respiratory rate Monitor Routed through C-Camp accelerator
- Design and development of respiratory monitor for early diagnosis of COVID-19

Prof. Tabitha Janumala gave topic as noncontact thermometers for UG Technical seminar topic and student initiated paper preparation for COVID-19 patients.

Dr. CH Renu Madhavi donated small amount Rs.2400/ for lunch on Ugadi Festival 25th March, 2020 for children in an orphanage run by Courtesy Foundation. Forty Three children were fed special lunch.



14. Placement Details of UG and PG:

Table 10: UG Placement Details of 2020 Batch

Total Strength of class	52
Eligible students for placements	44
No. of students placed	39
Total no. of multiple offers	10
Percentage of placement	88.63
Maximum Package in LPA	19
Average Package in LPA	6.96
Minimum Package in LPA	3.6

Table 11: PG Placement Details of 2020 Batch

Total Strength of class	9
Eligible students for placements	9
No. of students placed	1
Total no. of multiple offers	-
Percentage of placement	11.11
Average Package in LPA	3

The department congratulates Vishakh M M of 8th sem for getting the highest package of 19LPA offered by TOYOKOH.

Recruiters are



15. Gallery Section



ISA – RVCE Student Section, Talents Day Event, 20th Jan, 2020



Principal addressing 4th Sem Students on Design and Thinking Lab



VTU Ph. D Convocation, 9th Feb, 2020



8th Mile Fashion Show of Faculties, 1st March, 2020



UGC Autonomy Review Committee along with Faculty and Staff members,
14th Feb, 2020