



Rastreeya Shikshana Samithi Trust
R V College of Engineering
Department of Electronics and Instrumentation Engineering
8th Mile, Mysuru Road, Bengaluru-560 059

“AUTOMATION EXPLORER”

NEWSLETTER

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R.V.College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rastreeya Sikshana Samithi Trust (RSST) a not for profit Trust. RVCE is an Autonomous college. Currently, the institution offers 12 Bachelor, 21 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 49th in the Country by National Institutional Ranking Framework (NIRF- 2017), Ranked 7th among the top 113 Pvt. Engg. Colleges by The Week Magazine, Ranked 9th among the top 10 of 100 Pvt. Engg. Colleges in the Country by Education World Magazine. The institution has been accredited by NAAC. All the UG programs and eligible PG programs have been accredited multiple times by NBA. The College currently has a student strength of about 5600, faculty strength of more than 400, Technical & Administrative Staff of 256 and about 250 Research Scholars are pursuing Ph.D. RVCE has been conducting several FDPs, Conferences and Workshops under TEQIP to enhance the knowledge base.

Message from Editor's Desk- Prof. Sandesh R S

Welcome to this issue of Newsletter from the Department of Electronics and Instrumentation Engineering. We are delighted to launch our Bi-Annual News Letter **“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. I would like to thank all teaching, non teaching staff and our beloved students for their constant support.

1. About the Department of Electronics and Instrumentation Engineering

The Instrumentation Technology Department was established in the year 1981 with an intake of 40 students and the current intake is 60 students. The Instrumentation Technology was later nomenclated as "**Electronics and Instrumentation Engineering**" in the year 2014. The department also runs a Post-Graduate programme in Biomedical Signal Processing and Instrumentation and an established Research Centre in 2011, affiliated to VTU Belagavi. It offers high quality research as part of its PhD programs. The department has been accredited by NBA, New Delhi, in the year 2017 for UG for a period of **3 years** and in 2014 for PG.



Dr. K B Ramesh, HoD

The department aims to produce engineering graduates with adequate theoretical and practical knowledge in the area of electronics as well as instrumentation and computers so as to make them capable of design, implementation, development and maintenance of advanced instrumentation systems.

Instrumentation engineering is a specialized branch of electronics, computers and electrical engineering, primarily focusing on the principles and operations of measuring instruments used in the design, implementation, configuration, and development of automated systems. Electronics and instrumentation engineers carry out the task of measuring, testing, installing, designing, and maintaining various instruments used in the industry, hospital and other sectors of the society as well as carrying research in domain areas. The aim of instrumentation engineers is, *"To measure the world accurately and to control it precisely"*.

The program curriculum is suitably designed to meet the challenges of global technology. The department has well qualified and experienced faculty members with research experience in allied domains and well equipped laboratories.

The implementation of outcome based education in the program enhances the knowledge of faculty and students to meet the challenges of new technological world so as to mould the graduates as successful professional engineers, researchers and entrepreneurs. The curriculum of this program is good enough for employment in industry, government sectors, academia, research, management positions as well as entrepreneurial ventures of our students.

At the outset, I congratulate the newsletter committee members for their efforts in bringing out the newsletter. Newsletter is an amalgamation of all the events held in the department and it plays a pivotal role in showcasing the achievements accomplished by the faculty and the students.

2. 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 interdisciplinary projects with team spirit and professional ethics for achieving organizational goals.
3. Pursue higher education in technology or management and achieve professional excellence by imbibing 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, analyze 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.

3. NBA Visit to Department of Electronics and Instrumentation Engineering

It is a matter of great pleasure that, the Instrumentation Technology programme has been accredited by NBA for a period of **three years** starting from June 2017. The NBA team visited the institution for three days, from 7th April, 2017 to 9th April, 2017 and examined various aspects regarding outcome based education, quality of faculty, laboratories, academics, infrastructure innovative teaching- learning process and other facilities for evaluating Instrumentation technology programme.

4. Departmental Activities from JAN 2017 to JUNE 2017

The department has always been contributing significantly to the growth of technical education. The department has organized several workshops, seminars and guest lecture for the benefit of faculty, students and research scholars of educational institutions in and around the region.

Table 1: List of activities conducted in the department

Sl. No	Event Organized	Contributory Industry/ Institution/ Faculty	Organized by Department	Date
1	An Expert Talk on Product design Technology for 6 th SEM students	Dr. Narahari. N S Prof and HoD, IEM, RVCE	E&IE	18/01/2017
2	Proficiency Course on LabVIEW Core 1 and Core 2 training	Dr. K B Ramesh Mrs. Vidya M J Mrs. Rajasree P M & Mr. Manimaran.A of VI solutions	E&IE	20, 21,22, 24,28, 29 th January 2017
3	Department Alumni meet	Mrs. Deepashree D	E&IE	25/02/2017
4	National Conference on “Leveraging Intelligent Transportation system for Enabling smart Cities”	TEQIP II 1.2.1 and RVCE	CE, CSE, ISE, IEM, E&IE	02/03/2017 to 04/03/2017
5	3 days workshop on ‘Digital Signal Processing’	TEQIP II 1.2.1 and RVCE	E&IE	09/03/2017 to 11/03/2017
6	BoS Meeting for both UG and PG	---	E&IE	11/03/2017
7	Introduction to COMSOL Multi physics	Mr. Mahesh, IIT-Madras	E&IE	17/03/2017
8	Parents Teachers Meet	--	E&IE	25/03/2017

5. RVCE- ISA activities

The department has conducted many professional activities under lead International societies like ISA, which is a non profit professional body that sets the standard for those who apply engineering and technology to improve the management, safety, and cyber security of modern automation and control systems used across industry and critical infrastructure. ISA develops

widely used global standards certifies industry professionals; provides education and training and provides career development programs for its members. RVCE-ISA student section is active since 2000 in the department. The RVCE- ISA activity is headed by **Prof. S. Venkatesh**. Below are the lists of activities conducted for period from JAN, 2017- June 2017.

Table 2: RVCE-ISA activities conducted in the department

Sl. No	Name of the Speaker	Date of seminar	Targeted audience	Topic
1	Mr. Srikanth K S, Chief Architect HTSL, Bengaluru	20/01/2017	4 th and 6 th SEM	Instrumentation and way forward
2	ISA & QUIZ CORP, RVCE	25/01/2017	3 rd , 5 th and 7 th SEM	Tech Quiz
3	Mr. Krishna Puliur Automation Consultant ISA Bengaluru	13/02/2017	6 th SEM	Safety Instrumentation

6. Frequency Club activities

“Frequency club” is one of the innovative clubs which encourages technical creativity among the students at institutional level. The purpose of the frequency club is to bring out efficient engineering graduates powered with multiple technologies and inspire young brains to develop interesting solutions for industrial, medical & societal problems. Frequency club is active since 1995 and hosted by department of Electronics and Instrumentation Engineering under the leadership of **Prof. S. Venkatesh**. Below are the lists of activities conducted for a period from JAN, 2017- June 2017.

Table 3: List of activities conducted under Frequency club

Sl. No	Event	Resource person	Date	Targeted Audience
1	PCB designing	LION circuit, Bengaluru	17-3-2017	4 th SEM
2	IOT based smart watch R&D project	Frequency club members	--	--

7. RVCE- NI LabVIEW Academy

The RVCE- NI LabVIEW academy started in 2016 is for anyone seeking LabVIEW education and knowledge within the institution level hosted by department of E&I engineering. The department organizes proficiency courses for students during weekends from NI and faculty from Dept. of E&I Engineering, Bengaluru for. The students and faculty have the opportunity, knowledge, and tools to attempt the Certified LabVIEW Associate Developer- CLAD certificate online exam. The seven students by name **Aishwarya A(8th SEM), Manjunatha M S, Keren Thomas, Navyatha, Sagar Angadi, Sindhu B U, Ujwal B U(6th SEM)** have acquired CLAD certificate on 25th March 2017.

8. Team Hydra

The team hydra was officially formed by one of the student from E&I Engineering department Mr. Siddhant Bajpai of 6th SEM on Jan 2016. The students of this club are from multidisciplinary branches, who are working towards making autonomous underwater vehicle to explore new frontiers in oceanographic research and under-water surveillance for treatment of water, detection of wrecks and leakages. The students are constantly encouraged to participate in competition such as International conference/Journals both in INDIA and abroad. The team hydra is currently working in collaboration with **MSME sector, Centre of excellence, IISc, Bengaluru**. The team Hydra is headed by **Dr. S. C. Prasanna Kumar, Professor**, E&I Engineering department.

In continuation of above, the **MSME sector, Centre of excellence, IISc, Bengaluru** has contributed a sum of rupees 3 lakhs towards development of Unmanned autonomous underwater vehicle in the month of April 2017.

9. Awards and Recognition

- **Mrs. Rajine Swetha R** have been awarded Doctoral Degree 21st Jan 2017 by VTU, Belagavi, for the thesis titled, “**Circuit area Optimization using Hybrid Genetic Algorithm**” under the guidance of **Dr. Sumithra Devi K A**, Principal, GSSSIT, Mysuru.
- The RSST has felicitated **Dr. C.H. Renu Madhavi**, Associate Professor and **Dr. Rajine Swetha R** Assistant Professor, Department of E&I Engineering, upon successful completion of their Ph.D Degree on 26th - JAN- 2017, at R.V Dental College, Bengaluru.
- **Dr. K V Padmaja** has been invited to give a talk on “**Outcome Based Education**” in M S Engineering College, Bengaluru on 2nd and 3rd Jan 2017.
- **Dr. K V Padmaja** has been invited as an external expert to assess the scientist of DRDO Electronics division at Hyderabad from 26th May, 2017 to 28th May, 2017 and also at 19th May, 2017 at New Delhi.
- In view of super annuation of, **Mr. Krishnappa**, Peon, Dept of E&IE, for his 34 years long service to Institution, department of E&I Engineering honored him on 31st May 2017.
- In the View of super annuation of, **Mr. Prakash S**, Assistant Instructor, Dept of E&IE for his 32 years 6 months long service to institution, department of E&I Engineering honored him on 30th June 2017.
- The Cognizant Technology Solutions awarded the Best Outgoing Student award to **Mr. Ankur Ravindra Bodhe** of 8th SEM. The award comprised of medal engraved certificate and gift voucher.

- The best innovative project for the academic year 2016-2017 is awarded to **Ms. Aishwarya T V (1RV13IT006)**, **Ms. Amulya G (1RV13IT008)**, **Ms. Ankita.M (1RV13IT010)**, **Ms. Ankita Mallick(1RV13EC020)** for the project titled, “ **Design and development of automatic fire alert system in Railways using GSM and GPS Technology**”.

10. Workshops/seminars/conference attended by faculty.

Table 4: List of workshops/seminars/conference attended by faculty

Sl No	Faculty Name	Conference /Workshops /Seminars attended	Venue	Date Attended
1	Dr. Padmaja K V	Seminar-Networking under premier institutions TEQIP-II	IIT Roorkee and IIT Jodhpur	23/01/2017 to 28/01/2017
2	Dr. Anand Jatti	Faculty –student Collaboration in TEQIP-Initiative to achieve institutional objectives	Dept of Electrical Engineering IIT Bombay	26/01/2017
3	Dr. Anand Jatti	Workshop on Biomedical Image Analysis. TEQIP-II	IIT Roorkee	09/01/2017 to 13/01/2017
4	Dr. RajineSwetha	Biology for Engineers. TEQIP-II	BT Seminar Hall, RVCE	6/2/2017 to 9/2/2017
5	Dr. B.G Sudarshan			
6	Mr. Sandesh R S			
7	Dr.Padmaja K V	Introduction to Research	BT Seminar Hall, RVCE	18/02/2017 to 20/02/2017
8	Mrs. Veena Divya K	Solar Photo Voltaics Fundamentals Technologies and applications TEQIP-II	BT Seminar Hall, RVCE	21/02/2017 to 23/02/2017
9	Mr. Harsha. H			
10	Dr. Padmaja K V	Advanced Research-Pedagogy. TEQIP-II	Eagleton Resort, Bidadi, Mysuru Road	27/03/2017 to 28/03/2017
11	Prof . S Venkatesh			
12	Dr.Padmaja K V	State level project exhibition- ABVP	RVCE	26/5/2017 to 28/5/2017
13	Dr. K.B. Ramesh			
14	Mr. Kendaganna swamy	ICT tools for higher education	RVCE	16/06/2017

11. Student activities

The students are constantly encouraged to participate in techno-cultural events and internships. Below Table 5 gives list of activities from students, for past 6 months.

Table 5: Student activities from Jan 2017 to June 2017

Technical Event				
Sl. No	Event	Student name	Awards won	Venue
1.	Paper presentation on national Level Technical Fest “ANOKHA-2K17” March 2017	Ms. Lakshmi T V	1 st Prize	RRCE, Bengaluru.

2.	Circuit debugging, “ANANTHAM-2017”, April 2017.	Ms. Nagarathna Bhat	1 st prize	JSSATE- Bengaluru
Sports				
1	Kabbadi, Aatmatrisha Techno cultural fest 2017,	Mr. Ranjith k S Mr. Venkatesh S Mr. Yatish G Mr. Vishwanath M Mr. Jayaaj.D C	2 nd Prize	PES University
2	Kabaddi, Pathiyappa memorial Kabbadi cup-Jan 2017	Mr. Jayaraj D C	2 nd Prize	Devanga sangha, Bengaluru
Cultural Events				
1	State level Bharathanatyam contest	Ms. Anagha P M	1 st Prize	Adamyia Chetana, Bengaluru

Internships			
Sl. No	Name of the Company	Name of Student	Duration
1	ETA PRO technologies, Bengaluru	Mr. Siddesha G V Mr. Karthik H G Mr. Shantilal Mr. Vasishtha H D	15 th Jan 2017 to 30 th April 2017
2	ABB, India limited, Bengaluru	Mr. Syed faraz	19 th Jan 2017 to 18 th April 2017
3	V-care electronics, Bengaluru	Mr. Pavan Rao	17 th Jan 2017 to 18 th April 2017

12. Publication details of faculty and students.

1. Veena Divya.K, Dr. AnandJatti, Dr. RevanJoshi.P, “Computer Aided Classification using Support Vector Machines in Detecting Cysts of Jaws”, *Advances in science and technology and engineering Journal*, Vol. 2, 674-677, No.3, 2017, pp-674-677.
2. M J Vidya, Dr. K V Padmaja , G Chaitra, “ An Indigineous PPG acquisition system using monolithic photodetector OPT 101”, *International conference on Signal Processing, Communication, Power and Embedded System (SCOPEs)*, 2017, pp 1457 – 1460, 10.1109/scopes.2016.7955681.
3. M. J. Vidya, K. A. Vishnumurthy, Satheesh Babu Gandla, “Fabrication of a sensor to detect low concentration of methane: A bio-marker of colon cancer”, *IEEE Annual India Conference (INDICON)*, 2017, 10.1109/INDICON.2016.7838944.
4. K. Veena Divya; P. M. Rajasree; M. J. Vidya, “Appending a novel module to detect and monitor concussions in helmets — A prototype”, *International Conference on Signal Processing, Communication, Power and Embedded System (SCOPEs)*, 1861 – 1863, 2017, DOI: 10.1109/SCOPEs.2016.7955681.
5. Veena Divya.K, Dr. AnandJatti, Dr. RevanJoshi.P, “Appending active contour model on digital panoramic dental X- ray images for segmentation of Maxillofacial regions”, *IEEE EMBS conference on Biomedical engineering and sciences*, Kaula lampur, Malaysia, 2017, pp 450- 453,16/\$31/IEEE.

13. Industrial Visits.

The Department has common practice to arrange Industrial visits, atleast once in a semester, to give exposure in the field of Automation, Electronics and Instrumentation.

Table 6 Industrial visit during Jan 2017 to June 2017

Sl. No	Name of the industry	Faculty Co-ordinator	Date	Students
1	Jindal Steel Plant, Bellary	Mrs. Rachana Akki Mr. Harsha H	09/01/2017	6 th SEM UG and 2 nd SEM PG
2	Bellary Thermal Power Plant, Bellary	Mrs. Rachana Akki Mr. Harsha H	10/01/2017	6 th SEM UG and 2 nd SEM PG
3	COCO-COLA , Bidadi, Bengaluru	Mr. Kendaganna Swamy Mrs. Deepashree D	16/03/2017	4 th SEM UG
4	Schneider Electric, Bengaluru	Dr. Rajine Swetha Mrs. Rajasree P M	18/03/2017	4 th and 6 th SEM UG

14.Placement Details:

As on 30th June 2017, 49 students of 2016-2017 passed out batch of department of Electronics and Instrumentation Engineering, have been placed in various companies like Accenture, Cognizant, Infosys, Wipro and TCS, with the percentage of placement being 84.48%. The placement activities for 2017-18 batch were started in the month of July 2017. The placement activities are co-ordinated by **Prof. Kendaganna Swamy**, from E&I Engg department.

15. MoU with department of E&I Engineering.

The Department of Electronics and Instrumentation Engineering has signed a MoU with ETA-PRO Technologies, Bengaluru, on 27/02/2017, which was co-ordinated by **Prof. S Venkatesh**, Vasistha H.D, Siddesh G V, Karthik H G of 8th SEM E&IE.

In Continuation with extending the partnership between ETA-PRO technologies and frequency Club- E&IE, RVCE, the ETA-PRO Technologies has provided R&D kits and components worth \$6000, on 04/04/2017 to work on projects, approved by said company.

16. Entrepreneurs

Mr. Siddanth Bajpai of 6th SEM is the youngest entrepreneur in the department, is expected to receive a start-up grant of Rupees 85 Lakhs from MSME sector, Govt. of INDIA, to start a manufacturing company working towards development of autonomous underwater vehicles.

17. M.Tech in Biomedical Signal Processing & Instrumentation

The department of Electronics and Instrumentation Engineering started PG programme (M.Tech in Bio Medical Signal Processing and Instrumentation) with an intake of 18 students in the year 2006 affiliated to VTU, Belagavi and reached autonomous status in the year 2016. The PG programme has one Professor, Two Associate professors and one Assistant Professor. The PG programme is managed by **Dr. Padmaja K V**, Professor and Associate Dean.

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 analyze 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.

17.1 Patents Filed

Table 7: List of patent filed from Jan 2017- June 2017

Sl. No	Name	Title of patent	National/ International	Patent Number	Date filed
1	Dr. Sudarshan & Mr. Govardhan	Method and Apparatus for continuous Measure of Blood pressure	National	201741002255	20/01/2017

17.2 Projects Submitted (ongoing)

Table 8: List of ongoing projects

Sl. No	Name	Title of project	Funding agency	Amount in Lakhs
1	Dr. B G Sudarshan	Stress and associated diseases among Bangalore City police personnel.	BPRD, Bengaluru	4.95
2	Dr. B G Sudarshan	An ergonomic study of working conditions in garment industry and their health complications and remedial measures	UGC, New Delhi	11.25

17.3 TEQIP Teaching Assistantship

The TEQIP-II subcomponent 1.2.1 Centre of Excellence has given teaching assistantship to following students in the month March/ April 2017.

Table 9: TEQIP II teaching assistantship for PG students

2015-2017			
Sl. No	Name	USN	Category
1	Ms. Priya K L	1RV15LBI09	3B
2	Mr. Sangamesh T C	1RV15LBI12	3B
3	Ms. Suma R	1RV15LBI13	GM
2016-2018			
1	Mr. Adarsh Rao M D	1RV16LBI01	GM
2	Ms. Asha Vadde	1RV16LBI03	ST
3	Ms. Rakshita M	1RV16LBI05	GM
4	Mr. Shivraj Hebbali	1RV16LBI09	SC

17.4 M.Tech Student Internships and minor project details (2016-2018).

Table 10: PG internships and Minor project details

Sl. No	Name	USN	Internship	Minor Project
1	Mr. Shivraj Hebbali	1RV16LBI09	Bhagwan Mahaveer Jain Hospital, Bengaluru	Early detection of COPD- A lung disease using MATLAB
2	Mr. Akash Doddagoudar	1RV16LBI02	EMelite Tech solutions, Bengaluru	
3	Mr. Ganesh Raghunathan	1RV16LBI04	--	Steady State Visual Evoked Potential for robotic control using LabVIEW
4	Ms. Veena A C	1RV16LBI11	Confident Electronics Pvt. Ltd., Bengaluru	Development of a Pulse Oximeter using green LED.
5	Ms. Asha Vadde	1RV16LBI03		
6	Ms. Muthaheera Shaik	1RV16LBI07	GE X-ray Division, Bengaluru	Comparison of image processing techniques for enhancement of Biomedical images.
7	Mr. Mahesh Bani	1RV16LBI06	Bhagwan Mahaveer Jain Hospital, Bengaluru	Development of software module for genomic analysis of Rheumatic arthritis disease.

Editorial Committee:

Prof. Sandesh R S

Student Editors:

Ms. Rakshita. M, 3rd SEM, M.Tech - BMSP&I

Ms. Tanushree. B and Mr. Vishak M M, 3rd SEM E&IE, RVCE

Gallery Section



Industrial visit to Bellary thermal power plant for current 6th SEM and M.Tech students, sponsored by TEQIP II



Industrial visit to Jindal Steel plant for current 6th SEM and M.Tech students, sponsored by TEQIP II



Honoring Mr. krishnappa, Peon, Dept. E&I Engg for his long standing service of 34 years in RVCE



Department has conducted 3- days workshop on Digital Signal Processing, sponsored from TEQIP



An Alumni Meet was held on 25/02/2017 for E&I Engg. Department



Sports winning faculty of E & I dept. during annual sports meet held at RVCE.