

Professional Practices	Biomedical Instrumentation & Imaging Techniques	Hydraulics & Pneumatics	Measurement & Display Devices	Fundamentals of Electronics	Elements of Electrical Technology
Writing Skills: Official Letters, Curriculum Vitae, MS Office	Bioelectric Signals and Electrodes	Hydraulic pumps, Pressure control and flow control valves	Transducers- Types, working and characteristics	Diode as a Rectifier	Overview on Electricity, Circuit Fundamentals Different types and properties of
Communication, Leadership and Team work	Electrocardiograph and Electroencephalograph: Working and computerized Analysis	Direction Control valve, Hydraulic actuators and Accumulators	Display Devices: LCD, LED, Electroluminescent display and plasma display	Transistors- Classification, working and characteristics	Types of Capacitors
Problem solving, working under pressure and time management	Blood Flow Meters, Cardiac Pacemakers, Defibrillators and Ventilators	Pneumatic Control Valves & Actuators	Cathode Ray Oscilloscope and Measurement meters	Amplifier circuits and applications	Concept of coupling, Inductors and types of cores
Equipment maintenance overview	Clinical Laboratory Instruments, Blood gas Analyzers and Blood cell counters	Design and Analysis of Hydraulic & Pneumatic Circuits	Function Generator, Impedance Bridges, Q Meter and Recorders	Filter circuits, wave shaping circuits and voltage multipliers	Connectors, switches and Relays
Human Machine Systems. Contribution of ergonomics to work station design.	X-ray radiography, Mammography, Digital subtraction angiography, CT scanners, Ultrasound	Troubleshooting of Hydraulic & Pneumatic Circuits	Patient Monitoring System: Measurement of various parameters	Digital Electronics and linear ICs	Transformers, Motors and Power Supplies



Rashtriya Sikshana Samithi Trust
RV College of Engineering®

(Autonomous Institution)
Affiliated to Visvesvaraya Technological University, Belagavi)
Mysuru Road, Bengaluru-560059



In collaboration with
Association of Health Care Providers India (AHPI)

CERTIFICATION PROGRAM IN
“BIOMEDICAL EQUIPMENT MAINTENANCE AND SERVICING
(BEMS)”

About RVCE:

Rashtriya Vidyalaya College of Engineering (RVCE) established in 1963 is the flagship institution of Rashtriya Sikshana Samithi Trust (RSST) and one of the earliest self-financing engineering colleges in the country. RVCE today is recognized as one of India's leading technical institutions. It is rated amongst the top five self-financing engineering colleges in the country. Several leading National English magazines have rated the institution as the best institute in the nation amongst self-financing institutions based on Return on Investment by a student. RVCE ranked 63rd by NIRF-MHRD ranking for 2018-19.. The Institution is the preferred destination for top ranking aspirants, both for UG and PG programs.

RVCE is an autonomous institution affiliated to Visvesvaraya Technological University (VTU) Belagavi. The curriculum for UG & PG programs are designed by Board of Studies and approved by the Academic Council. The institution offers 12 UG and 17 PG programs. Fifteen departments are VTU recognized research centers for M.Sc (Engg.) and Ph.D. studies. Eleven UG programs and Ten PG programs are accredited by National Board of Accreditation (NBA). Institution is accredited by NAAC. The institution has students' strength of about 5500 and 200 research scholars. The institution has more than 375 qualified faculty members. The placement in most of the departments is over 95%.

The institution has to its credit over 1200 National and International Journal publications, 41 patents filed, 27 patents published, completed sponsored research and consultancy projects worth 30 crores for last three years. The institution has established Incubation Centre, Centre of Excellence in Macro-electronics, Cisco sponsored Centre of Excellence in Internet of Things, RVCE-Mercedes Benz Centre for Automotive Mechatronics, Center for Computational Genomics, Center for Smart Antenna systems. Toyota Kirloskar Motors sponsored automotive workshop and RV-Bosch Rexroth Centre for Automation. The students have won awards and accolades in national and international competitions.

About the Course

Medical devices in particular are crucial in the prevention, diagnosis, and treatment of illness and disease, as well as patient rehabilitation. The World Health Assembly adopted resolution, which covers issues arising from the in-appropriate deployment and use of health technologies, and the need to establish priorities in the selection and management of health technologies, specifically medical devices. The challenges faced by hospitals and technicians are imposed by the proliferation of medical equipment technology, their growing cost and complexity, device related patient harm and a profusion of conflicting information about medical equipment.

These challenges are faced by health professionals as well, but it is the service engineer or technician who is usually called upon to sort out these issues and make sense of them. To do so requires skill upgrading, access to reliable, up-to date technical information and the ability to consult with competent peers with specialized experience and judgment. With these in mind, RV College of Engineering has a total focused approach with the specific objectives to rapidly up-skill participants in the advanced technology management, operation, maintenance and repair techniques of medical equipment through interactive learning and hands on practice.



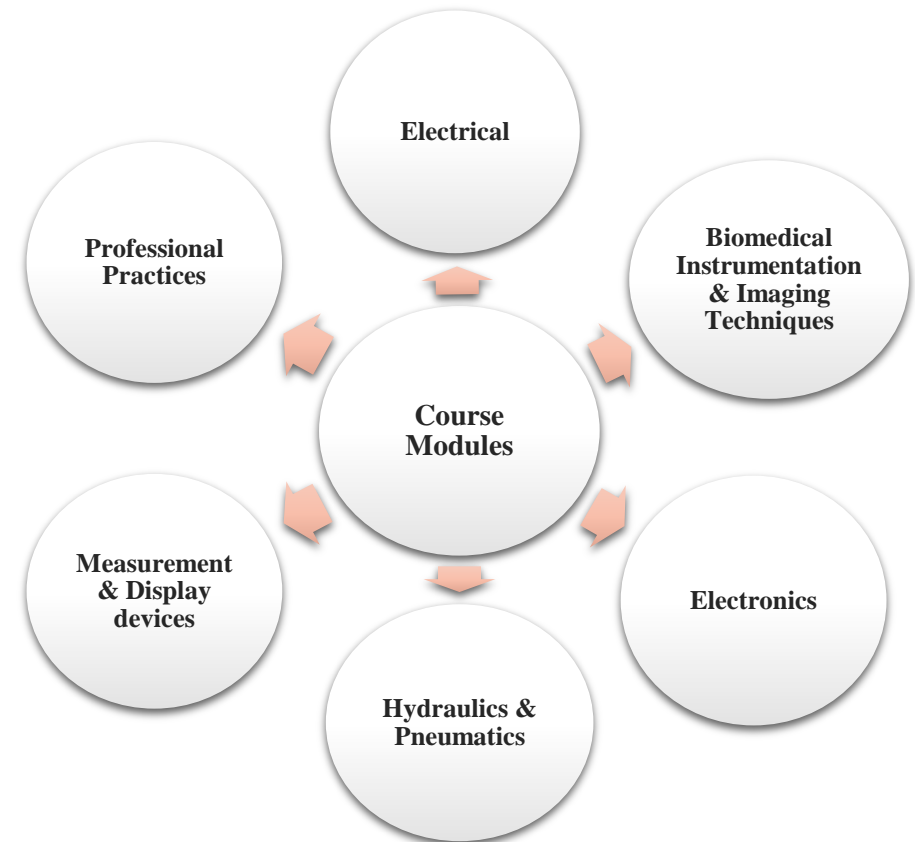
Course Structure:

The training modules are on various topics related to basics of biomedical engineering. The curriculum is designed in such a way to impart the following concepts to the participants:

- ✦ Assembling and Testing of components
- ✦ Trouble shooting
- ✦ Preventive maintenance
- ✦ Servicing
- ✦ Calibration

Eligibility: B.E. in Electrical and allied branches of Engineering

Duration: 6 months (3 months Coursework +3 months Internship)





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SERVICING (BEMS)”**

Registration Form (2019 - 20)

Personal Details

Student's Name	
Father's Name	
Student's Mobile No	
Date of Birth	
Gender: Male / Female	
Address for Communication	
Alternate Phone	
e-mail	

Education Profile	
Diploma Branch	
Year of Passing & Percentage of marks	
Engineering Branch	
Year of Passing & Percentage of marks / CGPA	
Registration Fee Paid Details	
DD No., Bank and Date	
Amount (Rs 500 + GST Rs 90) = Rs 590, to be drawn in favour of 'Principal, RV College of Engineering, Bangalore' .	
Signature of the Candidate	
Dates	
Last date for submission of forms	15 th October 2019
Entrance test	22 nd October 2019
Merit list declaration	24 th October 2019
Last date for payment of fee	4 th November 2019
Commencement of course	4 th November 2019
<p><i>For Further Information Contact: Dr Deepashree Devaraj, 9845903721 ,deepashree@rvce.edu.in</i></p> <p style="text-align: center;">Dr. CH.Renu Madhavi, 9449869509,renumadhavi@rvce.edu.in</p>	