Departmental Profile: Electronics

About the Department:

The Department of Electronics is one among the 9 academic departments of the Jankidevi Bajaj College of Science, Wardha. The Department came into existence in 1985. The course, offered by the department presently is B.Sc. in Electronics with a batch of 60 students. The Department has three dedicated full time faculty members having specializations in optoelectronics materials, Virtual Instrumentation, fuzzy logic and embedded system. The department has well developed laboratory to train the students to face the challenges of ever changing technology. The faculty members make use of modern teaching aids to impart effective training to students. The department has also e-learning Portal where educational software on electronics, soft copies of course material, university question papers, e-book related to the subjects are available. We have also established departmental library where in reference books are easily available to the students.

Highlights of the Department:

- Grant in aid department,
- Eligible and qualified staff
- Grant in aid department,
- Well-equipped laboratory,
- ICT facility,
- Computers with internet facility,
- Rich departmental Library,
- Student's projects.

Sophisticated Major Instruments:

- Two Probe Method For Resistivity Measurement of Near Insulators at Different Temperatures (Ambient to 200^{o}C)
- NI ELVIS instrument.
- Scientech 102A is Spartan3 FPGA based development board.
- The Kelvin double bridge
- Hot Air Oven.
- A Digital Oscilloscope
- Scientech TechBook 2201 DSB/SSB AM Transmitter

Teaching Staffs:

SN	NAME OF FACULTIES AND QUALIFICATION	DESIGNATION	PHOTO	CONTACT NO.	MAIL ID	SPECIALIZATION/ RESEARCH AREA
1	Dr. V. V. Shinde M.Sc. (Electronics), PGDCS &A, Ph.D.	Associate Professor (Ph.D. Supervisor)		9423118599	vvshinde.wda@gmail.com	Optoelectronics Materials
2	Dr. V. M. Ghodki, M.Sc., PGDCS &A, MBA, Ph.D.	Associate Professor (Ph.D. Supervisor)		9422841059	vilasghodki@rediffmail.com	Virtual Instrumentation
3	Dr. P. A. Saudagar M.Sc., PGDCS, MCA, NET, Ph.D.	Assistant Professor		9423424803	saudagar.pa@gmail.com	Embedded Systems

Recent Achievement of Students:

- Three students won first prize in ELCTRO-QUEST 2018 intercollegiate quiz competition.
- One student got Silver medal in Electronics for the year 2017 (RTMNU)

Highlights of the syllabus under Autonomy:

There are two main objectives to the B.Sc. Electronics Programme.

- To produce electronic professionals who can be directly employed or start his/her own work as Electronic circuit designer, Electronics consultant, Testing professional, and even an entrepreneur in electronic industry.
- To train students to a level where they can readily compete for seats for advanced degree courses like M.Sc. (Electronics).

On completion of the B.Sc. (Electronics) Programme, the student will:

- Have sound knowledge of the theory behind core subjects like, Electronic components, Electronic measuring and testing instruments, Analog and Digital IC's, Electronic circuit design and implementation, Troubleshooting and maintenance of electronic and electrical devices.
- Have sound skills in assembly Language and High Level Language programming, interfacing of electronic devices with computers, etc.
- Be in a position to develop industrial and entrepreneur applications.