

Center for Advanced Technology and Research (CATR)



- A Research Institute on Company model
 - Advanced Electronics Lab
- Focused on System Design & Manufacturing

Under BBrains Development Society registered under Indian society act, 1860 and
TekBrains Pvt. Ltd

www.bbscindia.com/CATR



➤ Introduction

The Center for Advanced Technology and Research (CATR) is the state-of-the-art higher education and research reform effort. The CATR develops (/combines) academics with technical and product design and development ability, process management along with entrepreneurial, professional and critical thinking skills to cope up with fast changing market needs.

CATR provides a state-of-the-art research and technology facility where students learn complete cycle of product development and design complete projects in collaboration with national and international partners. CATR develop students as entrepreneur, critical thinker and problem solver.

Through unique learning methods, individualized attention, and live projects handling under guidance of proper experts, CATR students explore the variety of ways to achieve their career goals. With the knowledge, skills, and support they receive, students leave CATR ready to launch their well define careers.

This center has been established by B.Brains Scholastic Center (under BBrains Development Society, Patna), TekBrains Pvt Ltd. and members of the society under investment cum contribution scheme. This center shall propose to get affiliated from any recognized university of India and abroad.

This center shall start diploma, advanced diploma and certificate courses under Bbrains Development Society or govt or non govt. agencies of India and abroad.



Milestones

- Tools Authorization for Micro Wind tool (France), 20-sim FROM Controllable Products, Netherlands, Mentor DSP FROM NI Logic Pvt. Ltd, Pune, System crafter FROM System Crafter Ltd, UK, CAD FEKO for electromagnetic Analysis, USA, System Crafter Hardware Board and other hardware boards from Ni2logic Pune.
- VLSI Electives course initiated at Dept. of Electronics, NIT Patna: Aug 2010.
- Completed Training on VLSI and project work in Bhagalpur College of Engineering, Bhagalpur in Sept-October 2010.
- MOU has been signed with Surendra Institute of Engineering and Management, SIEM (Silliguri, West Bengal) for the development of VLSI /Hardware lab: Nov 28, 2010.
- Released FPGA (Spartan 2) Trainer Kit, Spartan 6 Trainer Kit

Objectives:

The main objectives of this center are

- To focus and develop workforce for advanced and emerging technologies research & development.
- To create manpower by providing training in emerging technology areas which offer premiere employment and business opportunities
- To establish collaborative partnerships with national and international organizations in higher education & research to empower the Center and to offer coursework that is responsive to challenges in business/industry
- To provide practical training to scientific professionals on complete cycles of system design process, and its manufacturing and mould them for critical thinking, design innovation and ability to accept engineering challenges for developing quality products.

Goal and Mission

To develop CATR as technical designs power house and become frontrunner in field of advanced science and technology.

Industry Institute collaboration

In the fast changing technological world, developing industry standard workforce by colleges are challenging task. For that, technical courses must be taught and upgraded in keeping pace with industrial requirement. This will be possible only when professors upgrade their knowledge and enhance their technical skill. Also there is dire need to develop work culture and do research and development activities in the state. Students must adopt product implementation attitude from college level itself so as they could not face much difficulties in industry.

Therefore, **Industry Institute collaboration** (IIC) and interaction are required for Training, Project guidance, Placement and R&D Purposes in technical institutions. We offer to train budding engineers and professors in the field of following Technologies:

- VLSI Chip design
- Embedded System
- Hardware Board Design and Testing
- Website Administration
- Lab maintenance



➤ Professional Courses

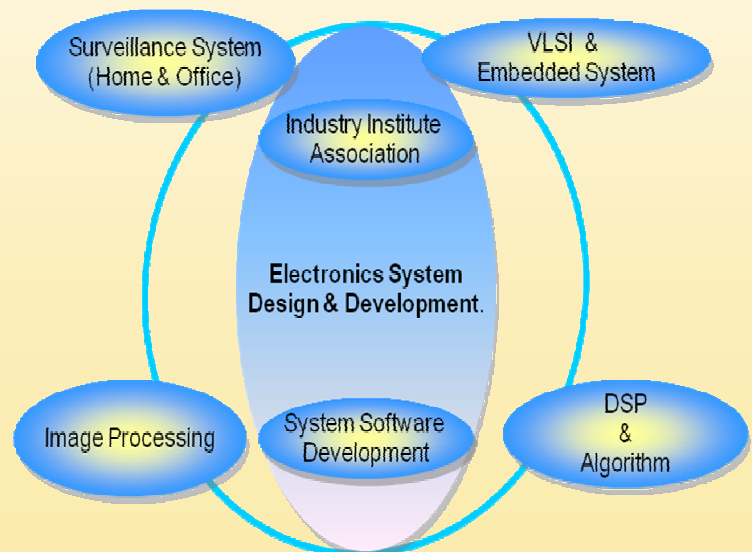
The Institute offers advanced Diploma and PG Diploma program in

- VLSI Chip design,
- PCB Design (Schematic and Layout),
- Embedded System,
- Hardware Board Design and Testing,
- Telecom and Mobile communication,
- Software System Engineering.

Certification and Accreditation:

DOEACC under Ministry of IT and communication, govt. of India will provide certificate for advanced diploma level courses. CATR proposes to get accreditation from Aryabhata Knowledge University for 2 years PG Level (M.S/M.Tech) courses.

➤ R&D Areas



Corporate and Summer Training

We provide corporate / summer training to the corporate/Scientists/ budding scientists who want to get hands-on training in the field of

1. PCB Design
2. Digital Hardware Design
3. Analog System Design
4. VLSI Design
5. Embedded System Design
6. IC Fabrication and Microelectronics
7. Robotics
8. Website Administration/ Server Management
9. PHP/My SQL/Internet Marketing



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Advanced Electronics Lab

**Contact us for System Design, Testing and
Manufacturing**

CATR

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