

VLSI Design and Embedded System Club

Vision

- To setup a Centre of excellence in VLSI design and embedded systems to pursue research in the related field.
- To make the students competent for core jobs in the Semiconductor & Telecomm companies.

Mission

- To develop the VLSI activities by providing training to undergraduate students in VLSI related fields.
- To establish a culture of pursuing research in the field of VLSI Design.
- To equip students with latest skills in the field of VLSI Design and embedded systems supplemented with practical orientation to face challenges of industry.

Club Members

- **Faculty(s):**

Asst. Prof. Millee Panigrahi, ETC Dept.

Asst. Prof. Minu Samantaray, ETC Dept.

Asst. Prof. Tanmaya Kumar Das, ETC Dept.

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- **Student (s):**
 - Dharendra Kumar Behera, 4th yr ETC
 - Vishal Raj, 4th yr ETC
 - Manasmita Dash, 3rd yr ETC
 - Himanshu Kumar, 3rd Yr ETC
 - Sangram Naik, 3rd Yr ETC
 - Debasish Panda, 2nd Yr ETC
 - Rahul Bose, 2nd Yr ETC

Objective

- To address the research, development and design problems and advance their solutions in VLSI circuits for embedded system and computing applications.
- The areas are Embedded System design, Biomedical Electronics, Electronic Instrumentation.
- The research topics covered by the group are:
 - System-on-a-chip design – FPGAs & ASICs
 - Real time application development
 - Intelligent systems for on-board data processing and control
 - Use of embedded systems in field of biomedical engineering, automobiles etc.

Activities

Training activities:

- The activities of the VLSI and Embedded Systems Research Group are related to efficient system design , advanced software development and also to train manpower in this emerging area and interact with the industry.

Research Facilities:

- FPGA implementation for VLSI/DSP prototype designs.
- VLSI circuit design using Tanner tools.
- Tools available: MATLAB, LabView , Tanner, multiSIM.
- Embedded design softwares : Keil μ vision, Proteus

Action Plan

- Demo on basics of VLSI design and embedded systems.
- Organizing Seminars, Guest lectures and Hands-on training programmes.
- Enhancement of Research activities and project works in the field of VLSI Design and Embedded systems.

Club Activity Centre

- Club activity centre is located in Trident Academy of Technology, Bhubaneswar (3rd Block- Room No:- VLSI Lab)
- Club will have meetings on the day(s) assigned by academic monitoring committee.
- Club Timing:- 5.15pm to 6.30pm
- Club proceedings will be recorded on weekly basis.

Thank you