



Rajarambapu Institute of Technology, Rajaramnagr has been selected as CUDA Teaching Center (2013-2014) based on our demonstrated commitment to advancing the state of parallel computing education using CUDA C/C++ at Department of Computer Science & Engineering.

Under this Programme NVIDIA Corporation Pvt. Ltd. has provided CSE Department at Rajarambapu Institute of Technology with Massively Parallel Programming 2nd Edition books, CUDA-capable high-end GPUs for teaching purposes and matching funds as part of this award. Rajarambapu Institute of Technology is also showcased as CUDA Teaching Center on NVIDIA website.

There is increasing trend of using graphics processing units (GPUs) for compute intensive tasks, as these processors have large number of independent cores in a single chip. This has led to the development of supercomputers built on GPUs. The programming of such multi-core processors has importance in the current high performance computing domain.

By using high-level languages such as CUDA C/C++, JCUDA, DirectX, OpenGL and Cg, various data parallel algorithms have been ported to the GPGPU. Problems such as protein folding, molecular dynamics, ray tracing, stock options pricing, SQL queries and MRI reconstruction achieved remarkable performance speedups on the GPUs.

Under CUDA Teaching Center, Dept. of CSE has planned to offer courses at post graduate level to teach CUDA C/C++ programming for NVIDIA's GPGPUs and carry out research activities in massively parallel processing.

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