"Two Days Workshop on Introduction to GPU Computing Using CUDA"

8th – 9th September, 2017

Registration Form

Name: .....

Institution: .....

Department: .....

Year: .....

Address: .....

Mobile: .....

E-mail ID: .....

Amount: .....

DD No: .....

Date: .....

Signature of participant .....

Registration Details

- Registration charges per participant:
  For Academician/ Industry person Rs 3500/- .
  For Students / Research Scholars Rs 3000/-
- Registration charges include course fees, certificate of participation, course material and working lunch.
- Registration charges will be accepted in the form of **cash/online/DD** along with duly filled registration form.
- Online payment can be transferred to "Vishwakarma Institute of Technology" (A/c No-3087149857), Central bank of India (IFSC CBIN0282402). **Email the UTR No to the email addresses given below.**
- DD should be drawn in favor of "Vishwakarma Institute of Technology" payable at Pune and should be submitted before **6th September, 2017**.
- Email soft copy of registration form and scanned copy of DD/receipt to

sangita.lade@vit.edu or **ashwini.shingare@vit.edu**

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Head, Department of Computer Engineering,
VIT, Pune
&
Prof. (Dr.) Premanand Ghadekar
Head, Department of MCA and Information Technology, VIT, Pune

Workshop Coordinators

Prof. Sangita G. Lade
sangita.lade@vit.edu

Prof. Ashwini Shingare
ashwini.shingare@vit.edu

Assistant Professor,
Department of Computer Engineering,
VIT, Pune

Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology, Pune

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Two Days Workshop
On

"Introduction to GPU Computing Using CUDA"

(8th and 9th September 2017)

Organized by

Department of Computer Engineering & Department of MCA & Information Technology

By

NVIDIA

GPU RESEARCH CENTER

About The Institute and Department

Vishwakarma Institute of Technology, Pune, a highly commendable private institute, occupies a place of pride amongst the premier technical institutes of the western region of India. Established in 1983, financed and run by Bansilal Ramnath Agrawal Charitable Trust, it is affiliated to Savitribai Phule Pune University. The institute runs 9 Under Graduate, 8 Post Graduate & 6 Ph.D. programs which are affiliated to the university. The institution has been awarded ISO 9001-2008 certification by BSI, India & granted autonomous status since academic year 2008-2009. The institute has marched towards the pinnacle of glory through its remarkable achievement & laurels in the field of engineering education.

The **Department of Computer Engineering** established in the year 1991 offers UG programs in Computer Engineering along with PG program in Computer Science & Engineering with focus on conceptual understanding of core domain areas in Computing as well as enhanced programming skills disseminating their analytical abilities. It caters to the ever increasing needs of technical brilliance in all areas of computer engineering. Information Technology branch has started in 2001 at VIT.

About the workshop

Today single threaded programming alone is not sufficient to solve compute intensive real world problems. In addition we want cheaper and energy efficient hardware for solving them. GPU satisfy this need by providing thousands of computing cores at relatively small cost with and with less power consumption as compared to CPUs. Along with these features they can be easily programmed using platforms like CUDA to harness their computing potential. This workshop is a very sincere attempt to make you familiar with GPU computing using CUDA.

Contents:

- Introduction to GPU architecture
- Introduction to CUDA programming model
- Compiling and executing CUDA programs
- Kernel execution on GPU
- Using GPU memories with hands-on
- CUDA code optimization

Features

- More focus on hands-on
- Well-designed course content
- Highly appreciated content delivery
- Well-equipped lab facility

Resource Person

Prof. Priyadarshan Dhabe.
Principal Investigator,
GPU Research Center,
Research Scholar IIT Bombay,
Assistant Professor, VIT, Pune.

Mr. Mandar Gurav.
Research Assistant,
Research Scholar,
IIT Bombay.

Venue:

Building No. 1,
Room No 1308 and 1309
Department of MCA & IT,
Vishwakarma Institute of Technology,
666, Upper Indira Nagar, Bibwewadi, Pune

Introduction of Resource Person

Prof. Priyadarshan Dhabe is currently working as Assistant professor in Information Technology and MCA, at Vishwakarma Institute of Technology, Pune and Ph.D research scholar at Systems and Control Engineering, Indian Institute of Technology, Bombay. He is working on polynomial global optimization methods based on Bernstein polynomials and GPU computing, for his doctoral thesis under Prof. P S V Nataraj. He is PI of NVIDIA's GPU Research Center at VIT, Pune. He worked as PI for the research project "Database Normalization Tool", funded by university of Pune, in 2008. He has fifteen years of teaching experience and guided around fifteen masters' students in the areas of database normalization, fuzzy neural networks, pattern recognition and GPU computing. He conducted many CUDA workshops and delivered many expert lectures in GPU computing.

Mandar Gurav is High Performance Computing professional with more than 8 years of experience in Parallel computing based on Cluster computing, GPGPU computing. He has been working on parallel application development, HPC tools development for different government and industry funded projects. He has delivered parallelization projects in domain of Computational Fluid Dynamics, Circuit simulation, Haptics and Image processing. Currently he is working as Research Assistant and Research Scholar at Indian Institute of Technology Bombay, Mumbai & he is responsible for parallelization of different scientific codes. His area of interest includes Parallelization of Scientific codes, Heterogeneous Computing, Performance Analysis of programs and optimization, Numerical Methods.

For registration contact:

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