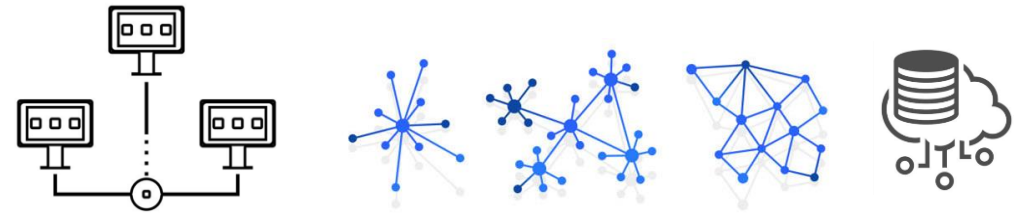
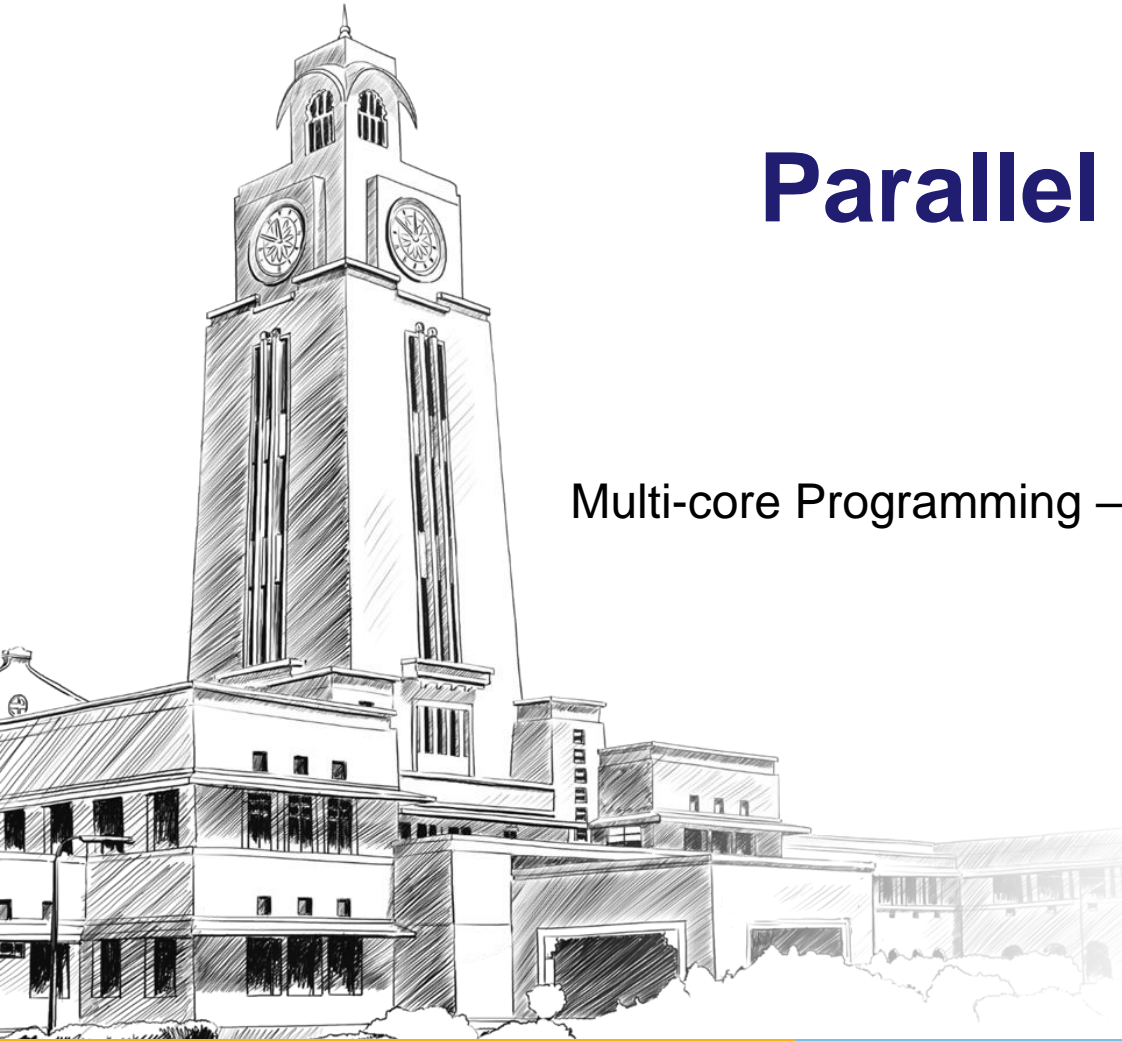


# Introduction to Parallel and Distributed Programming

CS7  
Multi-core Programming – OpenMP & Pthreads

Saikishor Jangiti



# Agenda

---



- Lab 4
- Writing programs that use OpenMP.
- Using OpenMP to parallelize many serial for loops with only small changes to the source code.
- Task parallelism.
- Explicit thread synchronization.
- Standard problems in shared-memory programming.

# Important Instructions to Students

---



- You can submit the answers to the exam questions only by typing in their answers for the questions in the Text box provided below the question. You will not be permitted to submit the answers to the exam questions by scanning and uploading your handwritten answers. Scanned and uploaded handwritten answers will be considered invalid and will not be considered for evaluation.
-

# mpi\_openmp\_pthread.c



- \* Purpose:
  - \* A framework to use and run MPI, OpenMP and Pthreads together
  - \*
- \* Compile:
  - \* `mpicc -g -Wall -o mpi_o_p mpi_openmp_pthread.c -lpthread -fopenmp`
- \* Usage:
  - \* `mpirun -np 3 ./mpi_hello` ~~o\_p~~ *p*

# Thank you



- Queries