

Report on Industrial Visit

CSIR center for Matemtical modelling and computer simulation (CMMAC-4th CSIR pardigm institute)

Department of Information Science & Engineering, MVJCE organised an industrial visit on 5-9-2017 for 5th semester ISE students to CSIR center for Matemtical modelling and computer simulation (CMMAC-4th CSIR pardigm institute).

Students along with the faculties **Mr Kumar and Mrs Pushpalatha M** started at 8.50 am from college by college bus and reached at 10.45 am to the institute.

After security check, We were received by **Mr. Pabhu, Sr.Scientist**, who took us to CMMAC conference room to deliver a guest lecture which outlined and enlightened our students about the following concepts:

- i) About their institution functionalities, operations and various divisions.
- ii) High performance computing (HPC) using supercomputers.
- iii) Applications of High performance computing (HPC)(eg. ocean modelling, weather forecasting, health care system etc.)
- iv) Evolution of supercomputer (convecx3820(1994), altix(2001 – 2012), Ananta(present CSIR super computer)
- v) Characteristics and architecture of the supercomputer clusters(like computing platform, cores, cluster parallel file system , memory in FLOPS etc)
- vi) Data centre features in terms to tier-3 complaint, UPS features, Internet and storage capacity.
- vii) Different super computers in India (SERC(IISC), ananta(CMMAC) etc) and around the world(NRCPS(China),Cray(USA), etc)



The Guest lecture by Mr. Pabhu, Sr.Scientist longed from 11.00am to 12.30pm.after which another guest lecture was delivered by **Dr. K C Gouda**, Sr. Scientist in which he outlined about latest Technologies using supercomputers which include Big data, Artificial

Intelligence & machine learning for data processing. He also highlighted various applications which are using supercomputers by incorporating these mentioned technologies. He enlightened students the need for the mentioned technologies and also advised them to step to learn these technologies which would help them in future job opportunities.



The guest lecture delivered by him was ended at 1.30pm. After which the students were taken to Supercomputing facility to show super computers. They were explained about its structure, data collection and processing methods in detail.

Later around 2.00pm we took a group photo with Mr. Pabhu, Sr.Scientist and exited the CMMAC organization towards college.



