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Industrial Visit Organized by  
Department of Computer Science  
Engineering

## **Industrial Visit to CSIR-4PI**

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An industrial visit to CSIR-4PI was organized by **Dr. S K Manju Bargavi**, Associate Professor and Industrial Visit Coordinator of the Department of Computer Science and Engineering. On receiving the letter of invitation from **Mr. R P Thangavel**, Chief-Scientist, CSIR-4PI, the 5<sup>th</sup> semester students from CSE enrolled into this program and embarked on this visit to CSIR-4PI, Bangalore, on August 28<sup>th</sup>, 2019. 60 students, accompanied by **Dr. S K Manju Bargavi** (Associate Professor - Department of CSE) and **Mrs. Pushpalatha** (Assistant Professor, Department of CSE), assembled in the college at 11.35 am, and left for the destination in the college bus.

They reached CSIR-4PI, NAL-Belur Campus, at around 1.10 pm and were received by the staff who guided them to the Conference Hall. Here, the students and faculty members were met by **Dr. Prabhu**, Sr. Technical Officer, High Performance Computing (HPC), who gave a brief introduction in an interactive seminar session. The seminar touched upon the history of the Supercomputer, the applications in fields such as oceans, earth science, atmospheres etc., the various uses of HPC, examples of various HPC, and the working principle of HPC. The doubts of the students were also cleared at this session.



Industrial visit to CSIR-4PI: (R to L) Dr. S.K. Manju bargavi, Assoc. Prof. Dept.of CSE and Mrs. Pushpalatha, Asst. Prof. Dept. of CSE along with 5<sup>th</sup> sem. CSE Students during the Industrial visit on 28<sup>th</sup> August 2019.

After the seminar session, the students went in groups to see and gain more information about the Supercomputer present at CSIR, its working, maintenance process, expenditures and also about the proactive steps taken to prevent accidents. Students discussed the internships processes, that would benefit those with interest in research and those who would want to work with the Supercomputer.

**Mr. Ashok**, Program Engineer, CSIR-4PI, explained about the Mathematical modelling approaches for illuminating the structure and evolution of the complex systems, computer simulation in the fields of ocean, atmosphere, earth science and engineering, that involve computational tasks which can only be provided by Supercomputers. The need for computational power, measured in terms of FLOPS, Giga Floating Point Operations per Seconds (GFLOPS) and PFLOPS, grows exponentially with every bit of increase in the complexity of the problem.

### **Outcome of the Industrial Visit:**

The students acquired knowledge about the Supercomputer (HPC) and its memory capacity, utilized in various fields to provide momentous technological intervention with regard to societal endeavours, including geographical area, health, energy and other sectors. By the end of the visit, the students got a clear idea about the Supercomputer and its real time applications.