



Approved by AICTE, New Delhi  
Affiliated to VTU, Belagavi  
Recognized by UGC under 2(f) & 12(B)  
Accredited by NBA & NAAC

Industrial Visit Organized by  
Department of Computer Science  
Engineering

## “Industrial visit to CSIR-4PI”

---

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 6<sup>th</sup> semester students from CSE, enrolled into this program and embarked on this visit to CSIR-4PI, Bangalore, on March 26, 2019. 64 students, accompanied by **Dr. S K Manju Bargavi** (Associate Professor, Department of CSE) and **Mrs. Nisha K B** (Assistant Professor, Department of CSE) assembled in the college at 9.30 am and left for the destination in the college bus.

They reached CSIR-4PI, NAL-Belur Campus, at around 10.45 am, and were received by the staff who guided them to the Conference Hall. **Dr. Prabhu**, Sr. Technical Officer, High Performance Computing (HPC), gave a brief introduction in an interactive seminar session. The seminar included a small history about High Performance Computers (HPC), its applications in fields such as oceans, earth science, atmosphere etc., various uses of HPC, examples of various HPC and the working principle of HPC. The doubts of the students were also cleared.



**Industrial visit to CSIR-4PI: (L to R) Dr. S.K. Manju bargavi, Assoc. Prof. Dept.of CSE and Mrs. K.B. Nisha, Asst. Prof. Dept. of CSE along with 6<sup>th</sup> sem. CSE Students during the Industrial visit on 26<sup>th</sup> March 2019.**

Following the seminar session, the students went in groups to see and gain more information about the HPC present at CSIR - its working, maintenance process, expenditures and also the precautionary steps taken to prevent accidents. Students who were interested in researching and working with HPC discussed about the internship processes, too.

De. Prabhu explained about the Mathematical modelling and computer simulation in the fields of ocean, atmosphere, earth science and engineering, that involve computational tasks which can only be provided by High Performance Computing (HPC). The need for computational power, measured in terms of Giga Floating Point Operations per Seconds (FLOPS), grows exponentially with every bit of increase in the complexity of problems.

The resource person of CSIR-4PI informed us about the internships that are on offer, for UG and PG students.

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

Students acquired knowledge about the operating procedures of HPC and its applications in various fields to provide significant technological intervention with regard to the societal efforts including environment, health, energy and other sectors. By the end of the visit, they got a clear idea about HPC and its real time applications.

