JAYAWANT SHIKSHAN PRASARAK MANDAL's
Jayawantrao Sawant College of Engineering
(Approved by AICTE, New Delhi, Govt of Maharashtra and Affiliated to University of Pune)
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M.E. Ph.D. (Elecrtonics Engg.)
LMISTE, FIETE, SMIEEE
Principal

INDUSTRIAL VISITS

(REPORT AY-2022-23)
## DEPARTMENT OF INFORMATION TECHNOLOGY
INDUSTRIAL VISITS ON : 23RD, THU, MARCH 2023
AT
INDIAN INSTITUTE OF TROPICAL METEOROLOGY
(AN AUTONOMOUS INSTITUTE OF THE MINISTRY OF EARTH SCIENCES, GOVT. OF INDIA)
DR HOMI BHABHA RD, PASHAN, PUNE, MAHARASHTRA 411008

Introduction:

The Indian Institute of Tropical Meteorology (IITM) is a scientific institution based in Pune, Maharashtra, India for expanding research in the tropical Indian Ocean with special reference to monsoon meteorology, and air-sea interaction of South Asian climate.It is an Autonomous Institute of the Ministry of Earth Sciences, Government of India. Objectives:

- The Objective of the industrial visit is to provide students an insight into the internal working of the IITM-Pune.
- The theoretical knowledge for making a good professional career and going beyond academics, industrial visit provides the student a practical perspective on the world of work.
- To get motivated students and learn from the Govt/Industry's experiences with the increased frequency of innovation has transformed the industrial landscape, equipping it with modifications and improvements at a faster rate.
- This sort of Visits training provides students with more on-the-job observation and exposure to current trends, applications of their learning, and other benefits.

Date and Time:

   * 23rd,March 2023

   * 11:00-3:15 PM

Attendance:

Total Students	Information Technology Student attended
77	28

Total Faculties	Information Technology Faculties attended
07	01

Agenda:

The Main Agenda of the industrial visit is to **provide exposure to students to the practical working environment**. They also provide students with a good opportunity to gain full awareness of Govt/Industrial practices. Through industrial visits, students get awareness about new technologies.

Industrial Overview:

The need to study the fundamental atmospheric problems and understand the mechanism of monsoon, weather systems and climate related processes in the tropical region, particularly over the monsoon region, became acute for India in 1950's when the country's post Independence economic development program was launched. Considering this urgent need the World Meteorological Organization (WMO), in its Third Congress, recommended the creation of meteorological research and training institutes in the tropical countries. The proposal was formally approved by the Government of India in February 1962 as one of the schemes under its Third Five Year Plan and finally the Institute was founded as the Institute of Tropical Meteorology (ITM) on 17 November, 1962 at Pune (the then Poona), as a distinct unit of the India Meteorological Department (IMD).

Lecture and Demonstration by the Scientist/Officer in charge of the IITM HPC / Data Center:-
PRATYUSH 4PF HPC System :

The latest supercomputer at IITM,Pune "Pratyush" is a Cray-XC40 LC [Liquid Cooled] System with 3315 nodes running Intel Xeon Broadwell E5-2695 processors with a peak performance of 4,006 TFLOPS and a total system memory of 414TB. The system is composed of 18 Compute cabinets and uses Cray's Aries AOC with Dragonfly Interconnect network topology. In addition, the system consists

of 16 Intel KNL 7210 accelerator nodes with a peak performance of 42.56TFLOPS and a total memory of 1.5TB.

System Information : Each of the compute node has dual socket and runs Intel Xeon Broadwell E5-2695 v4 18-core processors with a clock speed of 2.1GHz . The entire system operates on Cray's customized Linux OS, called Cray Linux Environment. The cluster supports architecture specific compilers from Cray as well as Intel and open-source GNU compilers. System also hosts architecture specific parallel libraries like OPENMP, MPI, libsci, Intel Cluster software etc. Applications like GFS, WRF,ROMS,CFS are available on the system for weather forecasting. To facilitate users with parallel program development, DDT parallel debugger and profiler is enabled on the system. The system uses PBS Pro as Workload Manager.

Outcomes:-

The students thoroughly enjoyed interacting with the scientists in the rapid developments in HPC/Data Centers. The visit was impactful as IITM-Pune provided a perspective of what the Govt/ Industry is doing and helped students to align and understand the gap between industry and academia and work towards bridging differences to enhance their knowledge and learning in the following Areas. Research work in the IITM is organized under the following scientific divisions covering the major disciplines in Meteorology and Atmospheric Sciences:

• **Forecasting Research**
• **Climatology and Hydrometeorology**
• **Physical Meteorology and Aerology**
• **Instruments and Observational Techniques**
• **Boundary Layer and Land Surface Processes Studies**
• **Theoretical Studies**
• **Climate and Global Modelling**

National Meteorological Services **provide meteorological data, information, forecasts and various related products**, which are important for the smooth functioning of many aspects in economy, administration and society.

STUDENTS AND FACULTIES ATTENDANCE LIST :

SL NO.	NAME OF STUDENT	PROGRAMME(UG-BE) BE/SE/TE	MOBLE NO	DEPT	SIGN
18	Trupti Jadhav	BE	9604858905	Comp	Trudav
19	Disha Memane	BE	7030293451	Comp	8U
20	Kadambaree Supekar	BE	7888135522	Comp	Supekar
21	Abhijeet Rathore	BE	8669262017	comp	Co
22	Viraj Garhane	BG	9890357980	comp	Viraj
23	Prathamesh Adinawar	TE	8369275083	Comp	Adinawar
24	Shivam Bhagne	TE	8856020165	Comp	Shivam
25	Kunal Kulkarni	TE	9270364960	Comp	Kunal
26	Rupesh Benake	TE	869888R13	Comp	Rupesh
27	Pravin Garud	TE	9112970678	mech	Garud
28	Soham Jain	TE	8530658864	Mech	Jain
29	Sanket Gondhali	TE	9741827938	mech	Sanket
30	Aniket Gaikwad	TE	8378850084	Mech	Aniket
31	Onkar Kachare	TE	9373138281	Mech.	OPK
32	kuldeep Yadav	TE	7030421164	Mech	kuldeep
33	Ekata more	TE	8669078094	comp	Ekl
34					
35	Shreyash Nimakal	TE	9890937515	IT	
36	Atharva & Cqhul	TE	93559361P	IT	Atha
37	Sumit Angane	TE	9209212599	IT	Sumit
38	Rushikesh Bhosale	TE	8407918292	IT	Rush
39	Abhishek Jadhav	TE	7381688716	IT	Abhi
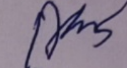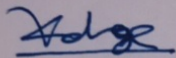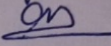
SL NO.	NAME OF STUDENT	PROGRAMME(UG-BE) BE/SE/TE	MOBLE NO	DEPT	SIGN
62	Sumit Babhulkar	TE	9175349049	IT	
63	Rushikesh Gwent	TE	7064801135	IT	
64	Mohammed Ali	TE	7263018446	SE	
65	Vaibhavi Kamfe	Te	7057436380	IT	
66	Rutuja Gofane	TE	8208850105	IT	
67	Divya Devade	TE	703012697s	IT	
68	Aaditi gwogaedare	TE	9146532220	IT	
69	Rudu Patil	TE	8308789674	IT	
70	Prashasti Randive	TE	9881383051	IT	
71	Yogeshwari Joshi	TE	8421858900	IT	
72	Vaishnavi kale	TE	9359720891	IT	
73	Srushti Khondekar	TE	9290948317	IT	

SL NO.	NAME OF STUDENT	PROGRAMME(UG-BE) BE/SE/TE	MOBLE NO	DEPT	SIGN
62	Khushovant Wagh	TE-IT	742013062	IT	
63	Nikhil Deore	TE-IT	9373618052	IT	
64	Vaibhavi Konde	TE - IT	7057436380	IT	
65	Rutuja Gotane	TE-IT	8208550105	IT	
66	Divya Devodi	TE-IT	70801201715	IT	
67	Shashank Ashturkur	TE-IT	7972503620	IT	
68	Aditi Ghodgaonkare	TE-IT	9145522320	IT	
69	Rutveek Jadhav	TE-IT	9890631502	IT	
70					
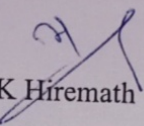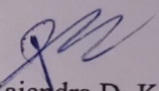
2. **DETAILS OF INDUSTRIAL VISIT : FACULTIES**

S. NO.	NAME OF FACULTY	DESIGNATION	DEPARTMENT	MOBILE NO	SIGNATURE
1	Ajit M Bansode	Assistant Prof	Electrical	8600019444	
2	Prof Swati Dagal	Ass Prof	IT	944637010	
3	Prof A.B Ghondal	Ass prof	Comp	7972635177	
4					

SL NO.	NAME OF STUDENT	PROGRAMME(UG-BE) BE/SE/TE	MOBLE NO	DEPT	SIGN
18	Mahesh Dudhe	TE-CS	5922735174	Comp	Dudhe
19	Aryan Singh	TE - CS	7066946083	Comp	Aryar
20	Prajwal Mandale	TE-CS	8374444452	Comp	
21	Yogesh Patil	TE-CS	9673147671	Comp	
22	Yash Tambat	TE-CS	7058104472	comp	
23	Sangram Deshmukh	TE-CS	9021737124	Comp	
24	Pranav Chobhe	TE-CS	8483848431	comp	
25	Nachiket Kotulwar	TE-CS	7620681133	comp	
26	Nishant Deshmukh	TE-CS	8767281347	Comp	
27	Pranav Powar	TE-CS	9373680427	Comp	
28	Shinde Amol	TE (Elect)	9923489313	electrical	Shind
29	Sakshi Bhosale	TE-CS	9370149626	Comp	bhosale
30	Shraddha Bansode	TE	9325480486	Comp	
31	Chavan Dhairyashil	TE(elect)	8698789494	Elect.	
32					
33	Patil Ajay	TE (IT)	7888144723	IT	Ajay
34	Sumeet Pakande	TE (IT)	9373025616	IT	Pkande
35	Anish Rephale	TE (IT)	7875683128	IT	
36	Rohit Sharma	TE (IT)	9359575258	IT	
37	Abhinandan Jain	TE (IT)	7276195199	IT	
38	Sahil Andhare	TE (IT)	8008588641	IT	
39	Prathamesh Deshamukh	TE (IT)	9960142870	IT	

Faculty Coordinator Name with Signature

1. Prof Aruna Gupta
2. Prof. Swati Bagul

rof. V.V.Kalunge
HOD, IT Dept.

Head of Department
Dept. of Information Tech.
JSCOE, Hadapsar, Pune-28

Prof S K Hiremath
Dean(R & D)

Dr. Rajendra D. Kanphade
Principal JSPM's JSCOE,