

## Report on Dr. Uday Kiran Rage's Visit - Research Internship Program for 2 Japanese Students (12-08-2024 to 24-08-2024)

Prof. Uday Kiran Rage, Associate Professor & Leader of Aizu Research Centre Cluster (B)- iTransporation, from the University of Aizu, - Japan has visited MITS, to strengthen the ongoing process of MoU requirements. In that process two Japanese students, Mr. Suzuki Shota pursuing Master's and Mr. Usami pursuing a Bachelor's program, have accompanied him to complete their Two-Week Research Internship Program. They stayed in MITS from 12-08-2024 to 24-08-2024. This exchange program facilitated the exposure of Indian culture, education system and work culture to the Japanese students. MITS students interacted with them and this visit paved way for smooth collaborative activities between student communities of both the countries. Later they visited some of the historical monuments, temples, city visits and understand the community life in India. They also observed the traffic conditions, congestions and toll plaza services in 3 different states viz, Andhra Pradesh, Karnataka and Tamil Nadu. For a comparative study this research has given enough insights to his students.

Further Prof. Uday Kiran Rage, gave an intensive, hands-on training for 16 hours to the students of School of Computers in the fields such as Artificial Intelligence, Machine Learning, Data mining, Data Structures and pattern mining, covering the topics in various scenarios such as traffic congestion, weather, and sales data. Nearly 80 students have taken advantage of his lectures and hands on experience, which has given them an exposure into bringing the innovative solutions to the real-life problems. These studies facilitated a good understanding about the latest techniques in the field of computer science. Dr. Uday Kiran Rage discussed with the faculty and the Heads of various departments about the multidisciplinary approach and the latest trends in the industry and academia in Japan. Further, discussions took place with the administrators to take these collaborative activities and MoU forward between UoA- MITS. Sessions for Theory Classes :

Date	Duration	Topic
13-8-2024	2 hours	Python Basics
		Python Documentation
14-8-2024	2 hours	Knowledge Discovery in Data
		Selecting the Right technique for Imputation and Prediction
19-8-2024	2 hours	Pattern Mining
		Graph Mining
20-8-2024	2 hours	Sequence Mining
		Parallel Computation (Map-Reduce Framework)

Practicals:

Date	Duration	Topic
13-8-2024	2 hours	GitHub and Markdown
		PyCharm IDE and Google Collab
14-8-2024	2 hours	Air Pollution Analytics – Coding
		Air Pollution Analytics - Documentation
19-8-2024	2 hours	Pattern Mining
		Graph Mining
20-8-2024	2 hours	Sequence Mining
		Parallel Mining of Frequent Patterns using Map-Reduce Framework







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