RAMAIAH
Institute of Technology

Five Day
Workshop on Environmental Health and Sustainability Powered by Machine Learning **and Artificial Intelligence**

Program Schedule
3rd Oct – 7th Oct 2023
Venue: Level 4, Multipurpose Block, Ramaiah Institute of Technology, Bangalore

Day 1 – 3rd October 2023 - Afternoon Session

Timings	Topic	Speakers
13.30 – 14.30	**Google Colaboratory and Python Basics**	**Dr. Sini Anna Alex,** Associate Professor, Computer Science & Engineering (Ai & Ml), MSRIT
14.30 – 14.45	Tea Break	
14.45 – 16.00	**Python – Matplotlib, Seaborn**	**Dr. Siva Kiran RR,**Asst Professor, Dept of Chemical Engineering, RIT

Day 2 –4th October 2023

Timings	Topic	Speakers
10.00 – 10.45	Environmental and Structural Health	**Dr. T Palanisamy,** Department of Civil Engineering, National Institute of Technology, Surathkal, Karnataka
10.45 – 11.30	Artificial Intelligence and Data Science	**Mr Harsh Singhal,** Head, ML, Koo, India
11.30 – 11.45	Tea Break	
11.45 – 12.30	NumPY and Pandas	**Dr. M.N. Thippeswamy,** Professor and Head, Dept. of CS&E (AI & ML and Cyber Security), Ramaiah Institute of Technology, Bangalore
12.30 – 13.30	Lunch Break	
13.30 – 14.30	NumPY and Pandas	**Dr. M.N. Thippeswamy,**Professor and Head, Dept. of CS&E (AI & ML and Cyber Security), Ramaiah Institute of Technology, Bangalore
14.30 – 14.45	Tea Break	
14.45 – 16.00	Artificial Neural Networks Perceptron	**Dr. Siva Kiran RR,** Asst. Professor, Dept of Chemical Engineering, RIT

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Day 3 –5th October 2023

Timings	Topic	Speakers
10.00 – 11.15	Basics of LaTeX	**Dr ArulalanRajan,** Indian Institute of Science, Bengaluru
11.15 – 11.30	Tea Break	
11.30 – 12.45	Pollutants removal in wastewaters - AI	**Practical Sessions**
12.30 – 13.30	Lunch Break	
13.30 – 14.00	LaTeX Basics, Monitoring Structural Health using AI and Machine Learning	**Practical Sessions**
14.00 – 14.30	Water Conservation	**VishwanathSrikantaiah,** Director, Biome Environmental Solutions, Visiting faculty with the School of Development, Azim Premji University
14.30 – 14.45	Tea Break	
14.45 – 16.00	Monitoring air pollution – AI	**Practical Sessions**

Day 4 –6th October 2023

Timings	Topic	Speakers
10.00 – 11.15	Wastewater management and conservation	**Dr. MA Jayaram,** Professor, Resource centre for Asphalt and Soil Training Academy, Bangalore
11.15 – 11.30	Tea Break	
11.30 – 12.30	Exploring Human Toxicity Data using NumPy, Pandas, Matplotlib	**Dr. Shilpa Ankalaki,** Department of Computer Science & Engineering Manipal Institute of Technology, Bengaluru
12.30 – 13.30	Lunch Break	
13.30 – 14.30	Wastewater characterization and Deep Learning	**Dr. Shilpa Ankalaki,** Department of Computer Science & Engineering Manipal Institute of Technology, Bengaluru
14.30 – 14.45	Tea Break	
14.45 – 16.00	Life Cycle Assessment	**Practical Sessions**

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Day 5 –7thOctober 2023

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Timings	Topic	Speakers
10.00 – 10.30	Solid Waste Management in Bengaluiru City	**Sri Santosh Kumar Kaddi,** Assistant Executive Engineer, BBMP, Bengaluru
10.30 – 11.15	Solid Waste Management in Bengaluru- Medical Officer Perspective	**Dr. Sandya,** Medical Officer, BBMP, Bengaluru
11.15 – 11.30	Tea Break	
11.30 – 12.30	Case Study and Valedictory	**Practical Sessions and Case Study**
12.30 – 13.30	Lunch Break	