Activity Report (news bulletin) of IT Dept. for September 2020

1. Expert Lecture/Seminar/Courses Organized by Department during September 2020:

Dept. of Information Technology had organized a online seminar on "Recent Trends in The Microcontrollers & Internet" by Mr. Rajendra Khope, CEO, ioCare, Pune on 4th Sept. 2020.
Dept. of Information Technology had organized a online seminar on "Importance of soft skills in the new normal" by Ms. Anjali Atre, Pune on 18th Sept. 2020.

2. Papers Presented by Students during September 2020:

Title of the Paper: Low Light Image Enhancement for Dark Images
Name of Journal: International Journal of Data Science and Analysis.
Volume and Issue No: Volume 6, Issue 4, August 2020
ISSN: 2575-1891
Names of Authors: Akshay Patil, Tejas Chaudhari, Ketan Deo, Kalpesh Sonawane BE , Prof. Rupali Bora
Abstract-
Image plays an important role in this present technological world and leads to progress in multimedia communication, various research fields related to image processing, etc. Low-light image enhancement specifically addresses images captured in low-light conditions such as nighttime, where the common goal is to brighten and improve the contrast of the image for better visual quality and show details that are hidden in darkness. Research fields that may assist us in lowlight environments, such as object detection, has glossed over this aspect even though breakthroughs-after breakthroughs had been achieved in recent years, most noticeably from the lack of low-light data (less than 2% of the total images) in successful public benchmark datasets such as PASCAL VOC, ImageNet, and Microsoft COCO. To improve image quality, these low-light images are needed to be enhanced. For this purpose, an exclusively dark dataset comprising of images captured in visible light only is proposed. Further, dehazing technique is used for haze removal, histogram equalization (HE) technique is used for contrast enhancement and denoising technique is used for noise removal. Experimental results demonstrate that the proposed method achieves a good performance in low light image enhancement and outperforms state-of-the-art ones in terms of contrast enhancement and noise reduction.
Keywords - Dataset, Dehazing, Denoising, Enhancement, Histogram Equalization, Low-light

3. Industrial Training/Workshop done by Staff during September 2020:

Following staff members had participated & completed successfully **AICTE Training And Learning (ATAL) Academy Online FDP**-

Sr. No	Name of the Staff Members	Title of the FDP	Organized by	Duration
1	Prof. Pratik Kadam	Cyber Security	Hyderabad Institute of Technology and Management	7th to 11th Sept. 2020
2	Prof. Shilpa Mene	Augmented Reality (AR)/ Virtual Reality (VR)	VNR Vignana Jyothi Institute of Engineering and Technology	7th to 11th Sept. 2020
3	Prof. Poonam Mahale and Prof. Pratik Kadam	Data Sciences	K.E. Society's Rajarambapu Institute of Technology Rajaramnagar	16th to 20th Sept. 2020
4	Prof. Shital Dehmukh, Prof. Kiran Somwanshi and Prof. Poonam Mahale	Design Thinking	K. K. Wagh Institute of Engineering Education and Research, Nashik	21st to 25th Sept. 2020
5	Prof. Rupali Bora	Artificial Intelligence	Jyothy Institute of Technology, Bengaluru	21st to 25th Sept. 2020

4. Training and Placement Cell during September 2020:

Sr. No	Name of the Company	Name of Students
1	TIAA, Pune	Srushti Gangurde
2		Gayatri Swar
3		Pranjal Warade
4	Persistent System, Pune(PSPL)	Anuja Karlekar
5		Yash Sonje

5. Achievements:

Prof. Rupali Bora had contributed as Jury Member in 4th Regional Project Competiion 2020 organized by Computer Society of India (CSI), Nashik Chapter in Association with Digital Impact Square (DISQ), Nashik.

H.O.D., IT