G. NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
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(AUTONOMOUS)
Shaikpet, Hyderabad – 500104

Department: Electronics and Communication Engineering
2019-20
REPORT

FDP on "**Recent Trends and Innovations on Digital Image and Video Processing**"

Date of Program: 11-05-2020 to 15-05-2020

Resource Person: Ms. Jayasri, NRSC; Dr. G Suryakanth, IIIT H; Dr. B M Mehtre, IDRBT;

About the Program:

The Faculty Development Program on Recent Trends and Innovations in Digital Image and Video Processing was organized to provide educators with insights into the latest advancements in the field. The program aimed to enhance participants' knowledge and skills, enabling them to integrate contemporary techniques into their teaching and research.

Objectives:

- To familiarize participants with recent trends in digital image and video processing.
- To explore innovative techniques and algorithms in the field.
- To provide hands-on experience with state-of-the-art tools and software.
- To facilitate networking and collaboration among participants.

Sessions and Topics Covered:

Introduction to Digital Image and Video Processing:

- Overview of fundamental concepts and principles.
- Evolution of image and video processing technologies.

Recent Trends in Image Processing:

- Deep learning applications in image analysis.
- Generative Adversarial Networks (GANs) for image synthesis.
- Transfer learning and its applications.

Innovations in Video Processing:

- Video compression techniques and standards.
- Object detection and tracking in videos.
- 3D video processing and immersive technologies.

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Hands-on Workshops:

- Utilizing popular tools and software for image and video processing.
- Implementing deep learning models for image recognition.
- Practical exercises on video editing and analysis.

Industry Perspectives:

- Guest lectures from industry experts on real-world applications.
- Case studies showcasing successful implementations of image and video processing in various industries.

Research Opportunities and Challenges:

- Identifying research gaps and potential areas for exploration.
- Discussing challenges and solutions in the field.

Key Takeaways:

- Gained a deep understanding of recent developments in digital image and video processing.
- Hands-on workshops provided practical experience and enhanced technical skills.
- Exposure to industry perspectives allowed participants to bridge the gap between academia and real-world applications.
- Networking opportunities facilitated collaboration and knowledge exchange among educators.

Conclusions:

The Faculty Development Program on Recent Trends and Innovations in Digital Image and Video Processing successfully achieved its objectives by equipping participants with the knowledge and skills needed to stay updated in this rapidly evolving field. The program not only fostered professional development but also encouraged a collaborative and forward-thinking approach among educators.

Overall, the FDP served as a platform for educators to engage with cutting-edge advancements in digital image and video processing, ensuring that they remain at the forefront of their field and can effectively contribute to the education and research community.

P. Madhwi

Signature of the Faculty Member

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Certificate of Participation

This certificate is awarded to **Madhuri Pocha, GNITS** for participating in One Week Faculty Development Program on **"Recent Trends and Innovations on Digital Image and Video Processing"** organized by Centre for Signal and Image Processing in association with Dept. of ECE, CMR Technical Campus, Hyderabad from 11th -15th May 2020, at CMR Technical Campus, Hyderabad.

Saikumar Tara
DP Convener, Centre Lead,CSIP

Prof. G. Srikanth
HOD,ECE

Dr. A. Raji Reddy
Director

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