

**Department of Electronics and Communication
Engineering in association with IEEE Student Branch RUAS**

Presents

**LECTURE SERIES AND HANDS-ON WORKSHOP ON
DIGITAL VIDEO AND IMAGE CODING FOR NEXT
GENERATION MULTIMEDIA APPLICATIONS**

From 8th - 12th July 2024

**Venue: D306, D Block, FET, RUAS,
#470-P, Peenya II Stage, Peenya,
Bangalore-560058**

**Registration Fees:
Students : Rs. 500
Faculty : Rs. 1000**

**Limited 60
seats available**

Resource Person

Dr. Shreyanka S

Assistant Professor, Dept. of ECE, RUAS

**(Delivered National and International Lecture series and Hands-on
workshop)**

Account Details

Name: IEEE SB RUAS

Account Number:

520101265593416

IFSC : UBIN0903299

**Name : Corporation Bank (Union
Bank of India)**

Branch: Malleshwaram, Bengaluru

Registration Link



Schedule

DAY 1 : 8th July 2024

Module 1: Digital representation of video, Basics of Image / Video Compression

Lecture 1	9:30 to 11:00	Multimedia Basics
Coffee Break	11:00 to 11:30	
Lecture 2	11:30 to 13:00	Multimedia Basics
Lunch	13:00 to 14:00	
Lecture 3	14:00 to 15:30	Digital Image Basics
Coffee Break	15:30 to 16:30	
Lecture 4	16:30 to 18:00	Digital Video Basics

DAY 2 : 9th July 2024

Module 2: Image coding : JPEG, JPEG LS, JPEG 2000, JPEG-XR, JPEG-XT, JPEG-Pleno

Lecture 1	9:30 to 11:00	JPEG/JPEG-LS/ JPEG 2000/JPEG XR
Coffee Break	11:00 to 11:30	
Lecture 2	11:30 to 13:00	JPEG-XT/JPEG-Pleno
Lunch	13:00 to 14:00	
Lecture 3	14:00 to 15:30	Tutorial
Coffee Break	15:30 to 16:30	
Lecture 4	16:30 to 18:00	Tutorial

DAY 3 : 10th July 2024**Module 3: H.264/MPEG-4 Part -10 advanced video coding (AVC)**

Lecture 1	9:30 to 11:00	H.264 AVC1
Coffee Break	11:00 to 11:30	
Lecture 2	11:30 to 13:00	H.264 AVC2/Extensions
Lunch	13:00 to 14:00	
Lecture 3	14:00 to 15:30	Tutorial
Coffee Break	15:30 to 16:30	
Lecture 4	16:30 to 18:00	Tutorial

DAY 4 : 11th July 2024**Module 4: High efficiency video coding (HEVC) and Performance Metrics**

Lecture 1	9:30 to 11:00	HEVC 1/ HEVC 2 & HEVC 3
Coffee Break	11:00 to 11:30	
Lecture 2	11:30 to 13:00	Performance Metrics
Lunch	13:00 to 14:00	
Lecture 3	14:00 to 15:30	Tutorial
Coffee Break	15:30 to 16:30	
Lecture 4	16:30 to 18:00	Tutorial

DAY 5 : 12th July 2024

Module 5: Versatile Video Coding (VVC) and Multimedia Applications

Lecture 1	9:30 to 11:00	VVC
Coffee Break	11:00 to 11:30	
Lecture 2	11:30 to 13:00	Transcoders/ Audio/Video Multiplex/Demultiplex
Lunch	13:00 to 14:00	
Lecture 3	14:00 to 15:30	Tutorial
Coffee Break	15:30 to 16:30	
Lecture 4	16:30 to 18:00	Tutorial

Contact

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Coordinator

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Dr. Kiran Kumar B M

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Coordinators

Mr. Prajwal K T, IEEE SB Branch Chair, RUAS

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