

# 3D Vision Summer School (3DVSS) 2024

## Tentative Plan

Day	Time	Program	Volunteer
Day 1 Sun (26/05)		<b>Background of 2D</b>	
	9:00 AM - 09:30 AM	Registration	
	9:30 AM - 10:45 AM	Intro to Image Processing	Sushree
	11:00 AM -12:30 PM	Primer on Camera Modeling	Arjun
	2:00PM - 3:00 PM	Primer on 2D Deep Learning	Dinesh
	3:00PM - 5:30 PM	Hands on Session (CNN)	TA(IIITB)
Day 2 Mon (27/05)		<b>Basics of 3D</b>	
	9:00 AM - 10:15 AM	Inaugurals + Keynote Talk by Prof. PJN, IIITH	
	10:30 AM - 11:30 AM	3D Sensing and Representation	
	11:30 AM - 12:45 PM	Intro to Geometry Processing I	
	2:00PM - 3:00 PM	Intro to Geometry Processing II	
	3:00PM - 5:30 PM	Hands on Session (Open3D/Trimesh/Meshlab)	
Day 3 Tue (28/05)		<b>Deep Learning on 3D Representation</b>	
	9:00 AM - 10:15 AM	Intro to Deep Volumetric & Point Cloud Learning	
	10:30 AM - 11:45 AM	Intro to Deep Learning on Meshes	
	11:45 AM - 12:45 PM	Intro to Deep Learning on Implicit Surfaces	
	2:00PM - 3:00 PM	Expert Lecture by Prof. Rajan, IIITH	
	3:00PM - 5:30 PM	Hands on Session	
Day 4 Wed (29/05)		<b>3D Rendering</b>	
	9:00 AM - 10:15 AM	Intro to Rendering	parag
	10:30 AM - 11:45 AM	Intro to NeRF	
	11:45 AM - 12:45 PM	Expert Lecture	
	2:00PM - 3:00 PM	Expert Lecture by Dr. Vlad, MPII	
Day 5 Thu (30/05)		<b>3D Human Modelling</b>	
	9:00 AM - 10:15 AM	3D Human Body/ Pose Estimation from Images/Videos	Arjun
	10:30 AM - 11:45 AM	Clothed 3D Human Reconstruction	
	11:45 AM - 12:45 PM	Expert Lecture by Dr. Stefanie Wuhrer, INRIA	
	2:00PM - 4:30 PM	Hands on Session (Parametric Model Regression)	
Day 6 Fri (31/05)	4:30PM - 5:30 PM	Expert Lecture by Dr. Shunsuke Saito, Meta	
		<b>3D Gaussian Splatting</b>	
	9:00 AM - 10:15 AM	Intro to 3D Animation	parag
	10:30 AM - 11:45 AM	Talk by Dr. Ramya, TCS Research	
11:45 AM - 12:45 PM	Talk by Bernhard Kerbl, TU Wien / CMU		
2:00PM - 3:00 PM	Sponsor Talks Session		

	3:00PM - 5:30 PM	Hands on Session	
Day 7 Sat (01/06)		<b>GenerativeAI</b>	
	9:00 AM - 10:15 AM	2D Diffusion Models	Viswanath
	10:30 AM - 11:45 AM	3D Diffusion Model	
	11:45 AM - 12:45 PM	Text-3D Generation	
	2:00PM - 3:00 PM	Startup Session	
	3:00PM - 5:30 PM	Hands on Session	