

Mahatma Gandhi Mission's College of Engineering and Technology, Kamothe Department of Electronics and Telecommunication Engineering A.Y. 2018-19

Report on Virtual Lab

The **virtual labs** are fully interactive simulations in which students perform experiments, collect data, and answer questions to assess their understanding. The **labs** combine animations, illustrations, and videos to convey key information and engage students in the process of science.

Quick learners of all classes were selected for performing virtual lab practical. One subject was selected for virtual lab for each class. Details of this shown in Table 1.1

Class	Subject	Virtual Lab	Faculty Assigned
S.E.	Digital Electronics	IIT Kharagpur	Prof. Dayanand Jadhav
T.E.	Digital Signal Processing	IIT Kharagpur	Prof. Kanchan Dhole
B.E	Image Processing	IIT Hydrebad	Prof. P. Shilpa Vijay

Table: 1.1 Class wise subject distributions for virtual lab

All students have performed practical as per instruction or procedure provided on line and also shown output of their assigned practical. They also cleared their doubts and provided conclusion by doing trouble shooting.

Following is list of quick learner that have successfully completed assigned practical with the help of respective assigned professor

CLASS	SR.	UID	NAME
	NO		
SE	1	117ET1310B	PATIL KETAKI JAYAWANT
	2	117ET1308A	PATHAK ANKIT RAKESH KUMAR
	3	117ET1267B	BANERJEE OINDRILLA
	4	117ET1268A	BHARDWAJ NAKUL SANJIV
	5	117ET1281A	GUPTA ANAND MAKSUDAN
	6	117ET1339B	YADAV MADHU ANILKUMAR RANI
TE	1	116ET1173B	ARDU SAMIKSHA KAILASH HEMLATA
	2	116ET1117B	BAMANE SHRUTI SHASHIKANT SHWETA
	3	116ET1154A	VARMA SANKET UMASHANKAR MUNNI
	4	116ET1299A	YADAV PRAKASH KRISHNAKANT SHEELDEVI
	5	116ET1174A	SINGH ABHISHEK JITENDRA SUMAN
	6	116ET1048B	JADHAV ISHA ASHOK JYOTI
BE(A)	1	115ET1414A	JADHAV VAIBHAV SHIRISH SHAKUNTALA
	2	115ET1284A	KUMAR HARSH PRASAD MAYA
BE(B)	3	116ET2311B	SANAS AISHWARYA MARUTI SUREKHA
	4	115ET1185B	SHAIKH TANZILA AYAZ TANVEER
BE(C)	5	415ET1184A	THAKUR ROHIT NITIN NILAM
	6	414ET1047A	RANSINGH ADITYA DATTATRAYA SUNITA

Following table shows list of the experiments performed by quick learner

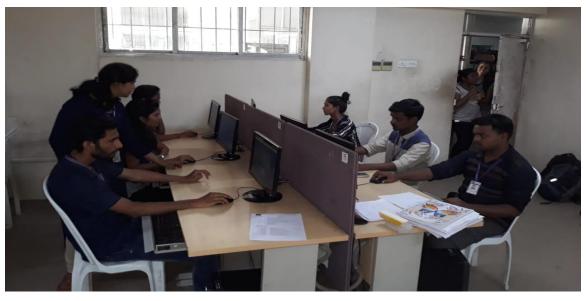
Class	Subject	List	List of Experiments	
SE	Digital	1	Implementation of Adder Circuit	
Electronics		2	Implementation of Multiplexer	
		3	Implementation of Decoder with 7-Segment Display	
		4	Implementation of ALU with function	
		5	Implementation of Latch and Flip Flops	
		6	Implementation of Registers	
TE	0		Study of sampling theorem, effect of under sampling.	
	Signal Processing	2	Study of Quantization of continuous-amplitude, discrete-time analog signals.	
		3	Study of different types of Companding Techniques	
		4	Study of properties of Linear time-invariant system.	
		5	Study of convolution: series and parallel system.	
		6	Study of Discrete Fourier Transform (DFT) and its inverse.	
BE Image 1 Distance and Connectivity		1	Distance and Connectivity	
	Processing	2	Neighborhood Operations	
		3	Image Histogram	
		4	Fourier Transform	
		5	Morphological Operations	
		6	Image Segmentation	

Following is details of conduction of virtual labs by respected faculty members

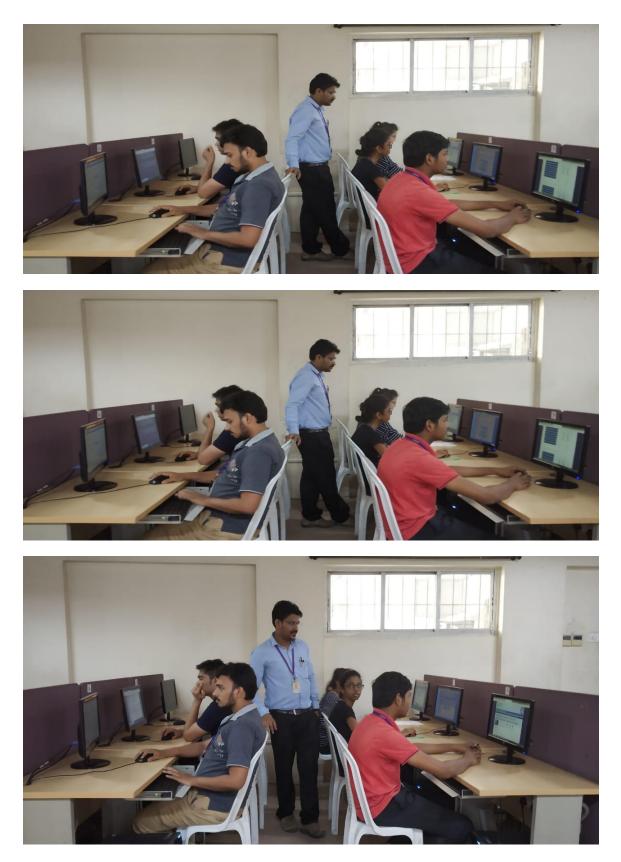
Class	Subject	VirtualLabConductionDateand Time	Faculty Assigned
S.E.	Digital Electronics	19/9/18 [3pm to	Prof. Dayanand Jadhav
		5pm]	
T.E.	Digital Signal	19/9/18 [9:30 am	Prof. Kanchan Dhole
	Processing	11:30 am]	
B.E	Image Processing	21/9/2018[3pm to	Prof. P. Shilpa Vijay
		5pm]	

Glimpse of Virtual Lab Conducted









We would like to give sincere thanks to Honarable DG sir, Dr. K.G. Narayankhedekar, Principal S.K. Narayankhedeka and Head of the Electronics and Telecommunication department Dr. Indra Vijay Singh