



Criterion 2: Teaching Learning and Evaluation

2.3.1 Teaching Learning Process

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List of Guest Lectures (AY2021-22)

Sr. No.	Name of Guest Lecturer	Name of Institute/Industries	Topic	Date
1	Mr. Shams Tabrez	Franke India Pvt. Ltd, Aurangabad	Use of CNC Technology in Industry	19-10-2021
2	Mr. Amardeep Undale	Ronch Polymer Pvt. Ltd, Pune	3D Printing Technology	08-10-2021
3	Mr. Ravindra Misal	Misal's Academy of Personality Skills (MAPS)	Enhancing Soft Skill and Personality	21-02-2022
4	Mr. Yuvraj Sarode	Lesokart Industries Pvt. Ltd, Aurangabad	Virtual Prototyping	25-03-2022


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Department of Electronics and Telecommunication Engineering



LIST OF GUEST/EXPERT LECTURES

Sr. No.	Session	Date	Expert	Topic
1	2021-22	09-09-2021	Dr. Sanjay Asutkar	Advanced Wireless Communications
2		11-10-2021	Dr. Samir Deshmukh	Importance of Goal Setting
3		20-01-2022	Prof. Rahil Khan	Get Ready for AI with MATLAB and SIMULINK.
4		10-02-2022	Mr. Ravindra Misal	Enhancing Soft Skills and Personality
5		25-02-2022	Prof. Umesh Samarth	IoT Analytics – Thing Speak Internet of Things
6		11-03-2022	Dr. Salim Chavan	Smart Cities- Opportunities for Engineering Graduates


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Session 2021-22

Guest Lecture/Expert Lecture

List of Guest/Expert Lecture

Sr. No.	Name of Expert	Topic	Date
1	Mr. Mohd. Waheed, Technical Officer at ACC Limited, Nagpur	Concrete Technology	01/07/2021
2	Mr. Harshvardhan Shende, Retired Assistant Engineer PWD, Nagpur	Curves in Highway	09/08/2021
3	Ms. Chetna Shelke, Assistant Professor at GNIT, Nagpur	Uses of STAAD PRO in Industries	18/02/2022
4	Mr. Saurabh Bhandarkar Director, SB Developers, Nagpur	Repairs of Structure	08/03/2022



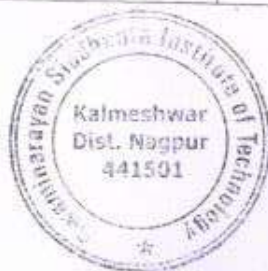

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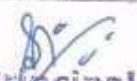
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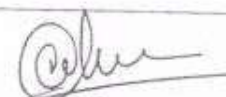

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List of Guest Lecture/Expert Talks
Session 2021-22

Sr. No.	Topic	Speaker	Designation	Organization	Date	Time	Faculty Incharge
1	Seminar on AI with Deep Learning	Dr. Vishal Sathwane	Adjunct Professor	NIT Raipur	23/08/2021	11:30am	Prof. Tejal Hirekhan
2.	Introduction to Python Programming	Mr. Sanket Koparkar	Quality Analyst (QA)	Maxima IT Consulting India Private Limited, Pune	23/08/2021	2:30pm	Prof. Tejal Hirekhan
3	Expert Lecture on software craftsmanship	Ms. Neha Deshmukh	Front End Developer	Vowel Web , Nagpur	13/09/2021	1:30Pm	Prof. Vijeta Ramteke
4	Guest Lecture on Challenges in Cyber Security	Mr. Bhunesh Joshi	Director of Social Impact Innovation Private Limited	Social Impact Innovation Private Limited	29/09/2021	3:00pm	Prof. Tejal Hirekhan
5	Advance Trends and Technologies	Ms. Anuja Ghasad	Assistant Professor	J.D.College of Engg. And Tech.	13/10/2021	11:30am	Prof. Vijeta Ramteke
6	Webinar on Introduction to Machine Learning	Ms. Prerna Sathe	Senior Software Engineer	Accenture Solutions Pvt. Ltd., Pune	25/10/2021	2:30pm	Prof. Tejal Hirekhan




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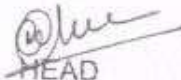

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7	Introduction to salesforce	Ms. Vaishali Bhajbhujje	Sr. Salesforce Developer	Cloudtaru Infotech Pvt Ltd	11/02/2022	2:30pm	Prof. Prachi Bhure
8	Guest Lecture on IoT and its application	Prof. Umesh Samarth	Asst. Professor	JDCOE, Nagpur	28/02/2022	02:00pm	Prof. Prachi Bhure
9	Webinar on Influence of AI in 5G Network	Mr. Gopal Jadhao	Senior Consultant	Capegimini	07/03/2022	12:00pm	Prof. Tejal Hirekhan



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(Computer Engineering)



L. No.: SSIT/CE/2021-22/GL/17
Date: 08-03-2022

To,
Mr. Gopal Jadhao
Senior Consultant,
Capegemini, Pune

Appreciation Letter

Respected Sir,

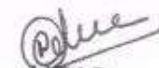
It was a wonderful experience having you at Computer Engineering Department of Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur among all of us. We were truly motivated by your presence of compassion and vigor for **Guest Lecture on "Influence of AI in 5G Network"** for third and final year students. We believe that this meeting of ours will certainly turn out to be a remarkable one for the budding engineer's in their field of excellence.

Sir, we would like to extend our humble gratitude to you for spending your precious time with us. It was our privilege to have you here with us.

Thanking you.




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Dept. of Computer Engg.
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Head of Department

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661103, Email-id: info@ssitedu.com, Website: www.ssitedu.com



Guest Lecture
On

"Webinar on Influence of AI in 5G Network"

Mr. Gopal Jadhao
Senior Consultant at Capagemini , Pune

Organized By
Department of Computer Engineering

Swaminarayan Siddhanta Institute of Technology, Nagpur

Date
07/04/2018

Computer Engin...

Computer Engineering



Gopal Jadhao

Arham Waquil S...

Arham Waquil Siddique

Beshaj Meshram

Beshaj Meshram

Activate Windows
Go to Settings to activate Windows

AI in networks

SAMSUNG

Green field
Innovation

Protocols and
signallings

Ne

Device-level AI

Data is collected and stored
on device - better privacy,
reduce delay and no data
overhead

Effects to and from the
network

Localised AI

AI applied across network
domains, data needs to be
passed between

Data overhead
Localised decision may be
complimentary to end-to-end
AI

End-to-

AI applied for the
network, data
gathered from
domains of the

Data chal
Deploy

Computer Engin...

Computer Engineering



Gopal Jadhao

Arham Waquil S...

Arham Waquil Siddique

Beshaj Meshram

Beshaj Meshram

Activate Windows

CW TEC 2018 - The inevitable automation of Next Generation Networks



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L. No.: SSIT/CE/2021-22/GL/16
Date: 04/03/2022

To,
Mr. Gopal Jadhao
Senior Consultant,
Capegemini, Pune

Subject: Invitation for Guest Lecture on "Influence of AI in 5G Network"

Respected Sir,

It gives us immense gratification to enlighten you that Department of Computer Engineering of Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur is organizing **Guest Lecture on "Influence of AI in 5G Network"** for Third & Final Year students on 07-03-2022 at 12:00 pm onwards. It will endow with a platform to exchange knowledge among young technocrats. It will be our pleasure and honor to seek your august as an Expert for guest lecture. Your association is significant in ensuring a great success to the event.

Thanking you.

Details of Guest Lecture:

- Date & Time: 07/03/2022 & 12:00 PM onwards
- Mode of Conduction: **Online (Zoom Meeting)**
- Coordinator: **Prof. Tejal Hirekhan**



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L. No.: SSIT/CE/2021-22/GL/15
Date: 28-02-2022

To,
Prof. Umesh Samarth
Asst. Professor,
J D College of Engineering, Nagpur

Appreciation Letter

Respected Sir,

It was a wonderful experience having you at Computer Engineering Department of Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur among all of us. We were truly motivated by your presence of compassion and vigor for **Guest Lecture on "Introduction to IoT and its application"** for third and final year students. We believe that this meeting of ours will certainly turn out to be a remarkable one for the budding engineer's in their field of excellence.

Sir, we would like to extend our humble gratitude to you for spending your precious time with us. It was our privilege to have you here with us.

Thanking you.



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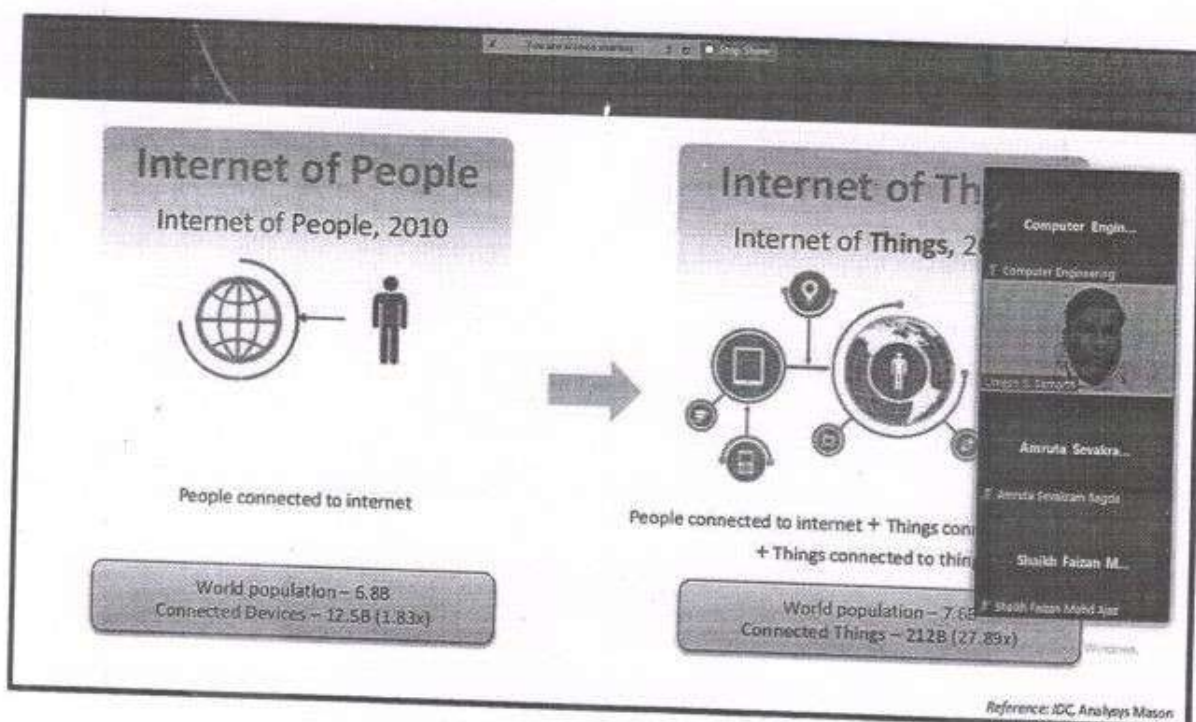
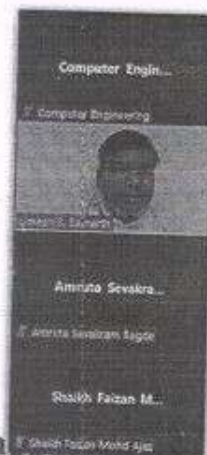
Guest Lecture
On

"Introduction to IoT and its application"

Prof. Umesh Samarth
Asst. Professor at J D College of Engineering Nagpur

Organized By
Department of Computer Engineering

Swaminarayan Siddhanta Institute of Technology, Na



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L. No.: SSIT/CE/2021-22/GL/14
Date: 26/02/2022

To,
Prof. Umesh Samarth
Asst. Professor,
J D College of Engineering, Nagpur

Subject: Invitation for Guest Lecture on "Introduction to IoT and its application"

Respected Sir,

It gives us immense gratification to enlighten you that Department of Computer Engineering of Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur is organizing **Guest Lecture on "Introduction to IoT and its application"** for Third & Final Year students on 28-02-2022 at 02:00 pm onwards. It will endow with a platform to exchange knowledge among young technocrats. It will be our pleasure and honor to seek your august as an Expert for guest lecture. Your association is significant in ensuring a great success to the event.

Thanking you.

Details of Guest Lecture:

- Date & Time: **28/02/2022 & 02:00 PM onwards**
- Mode of Conduction: **Online (Zoom Meeting)**
- Coordinator: **Prof. Prachi Bhure**



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661103, Email-id: info@ssitedu.com, Website: www.ssitedu.com



3rd Semester

Components for Electronic Circuit Design

Sr No.	Topic	NPTEL Video List
1.	PN Junction Diodes	https://www.youtube.com/watch?v=L28FIOenyds
2.	Zener Diode and Applications	https://www.youtube.com/watch?v=I2nrBITEVIs
3.	Bipolar Junction Transistors	https://www.youtube.com/watch?v=UaDaQZfVbKc
4.	MOSFET	https://www.youtube.com/watch?v=KsG_rsGF2g8&t=1s
5.	Band structure and Fermi-Dirac distribution	https://www.youtube.com/watch?v=2m6FRf235mM
6.	Breakdown of junction and C-V profiling	https://www.youtube.com/watch?v=NrYyrTmizAU&t=7s
7.	Schottky junction under equilibrium	https://www.youtube.com/watch?v=1ps9qsLwmns
8.	Introduction to Quantum Mechanics	https://www.youtube.com/watch?v=xlrvgLUKqU
9.	E-K Diagram	https://www.youtube.com/watch?v=uYPKhRxTCfY
10.	Introduction to IC fabrication	https://www.youtube.com/watch?v=lv4Cj2A3ldw
11.	Layering: thermal oxidation	https://www.youtube.com/watch?v=GyezPlznqvI
12.	CMOS Technology	https://www.youtube.com/watch?v=vbWNY2ZpXLM
13.	Small signal model of MOSFET	https://www.youtube.com/watch?v=muvucBFQzMw
14.	Semiconductor Photo-Diodes	https://www.youtube.com/watch?v=S9jMMALKKKs
15.	PIN Diodes and Control Circuits	https://www.youtube.com/watch?v=JIQB0yZw2as
16.	Photonic Devices (LED, Photo diode, LASER, PIN diode)	https://www.youtube.com/watch?v=hEJq8_iWsh4

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Department of Electronics and Telecommunication Engineering



3rd Semester

Digital System Design

Sr No.	Topic	NPTEL Video List
1.	Analog vs Digital	https://www.youtube.com/watch?v=rkOWP9oVaXk
2.	Binary number system	https://www.youtube.com/watch?v=36DI85rQZP4
3.	Boolean Algebra	https://www.youtube.com/watch?v=czFn9Wg3k4o
4.	SOP and POS Representation	https://www.youtube.com/watch?v=NvTrT4z5Od4
5.	Boolean minimization using K-Maps	https://www.youtube.com/watch?v=igwRl-1clmw
6.	Multiplexer	https://www.youtube.com/watch?v=JR6_a3KPKHE
7.	Decoders	https://www.youtube.com/watch?v=i_hwUqHPXrc
8.	adder	https://www.youtube.com/watch?v=8ILod7KBHi0
9.	Introduction to sequential circuits	https://www.youtube.com/watch?v=rwtXSnYPXwl
10.	Latches	https://www.youtube.com/watch?v=fteZeTDcfgQ
11.	D-Flip-flops	https://www.youtube.com/watch?v=oEkI2LjmPnw
12.	Counters	https://www.youtube.com/watch?v=jhwLvSMK9Kc
13.	Sequential circuit analysis	https://www.youtube.com/watch?v=1WyPluT6T-8
14.	8085 Microprocessors	https://www.youtube.com/watch?v=oRPluYsxF28
15.	BCD to seven segment decoder	https://www.youtube.com/watch?v=vNSldKqSjO4


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3rd Semester

Network Theory

Sr No.	Topic	NPTEL Video List
1.	Introduction: KVL, KCL and Power Balance	https://www.youtube.com/watch?v=0pFF1oAYgQI
2.	Voltage and Current Sources	https://www.youtube.com/watch?v=zF12z_R6xZA
3.	Mesh Analysis	https://www.youtube.com/watch?v=O2GoxZqhlzA
4.	Nodal Analysis	https://www.youtube.com/watch?v=8--xLgd2o0o
5.	Norton's Theorem	https://www.youtube.com/watch?v=Vk_E7wAGrK0
6.	Thevenin Theorem	https://www.youtube.com/watch?v=NPqLUFN9tAE
7.	Telligen's Theorem	https://www.youtube.com/watch?v=eEoo3tVghHA
8.	Star-Delta and Delta-Star Transformation	https://www.youtube.com/watch?v=KvuoMFTco3w
9.	Reciprocity Theorem	https://www.youtube.com/watch?v=xsbMihPStUc
10.	Maximum Power Transfer Theorem	https://www.youtube.com/watch?v=gRJH0NWPYcl
11.	Two Port Network	https://www.youtube.com/watch?v=plv9ovmwHmA
12.	Two - port Network parameters	https://www.youtube.com/watch?v=3Q3YTKh10FE

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3rd Semester

Signals and Systems

Sr No.	Topic	NPTEL Video List
1.	Introduction to Signals & Systems	https://www.youtube.com/watch?v=0nZYen9w_eo
2.	LTI System	https://www.youtube.com/watch?v=kTKaNsdBzc4
3.	Continuous and Discrete Time Systems	https://www.youtube.com/watch?v=mqtW0Y1dR68
4.	Even Signal; Odd Signal	https://www.youtube.com/watch?v=ieSIj2XUGAo
5.	Shifting and Scaling in Continuous Time	https://www.youtube.com/watch?v=EDd-JumwuVc
6.	Fourier Transform	https://www.youtube.com/watch?v=PjY63bYsSIU
7.	Inverse Fourier Transform	https://www.youtube.com/watch?v=sAHB1sCKkcU
8.	Fourier Transform : Linearity, Time Shifting and Time Scaling	https://www.youtube.com/watch?v=qBveoaffT6A
9.	Fourier Transform : Multiplication and Convolution Property	https://www.youtube.com/watch?v=iFPj74f7MeI
10.	Linearity and Time Invariance	https://www.youtube.com/watch?v=Lo7yJqF0d20
11.	LTI Systems : Commutative, Distributive and Associative	https://www.youtube.com/watch?v=-fTij3qoI3E
12.	LTI Systems : Memorylessness and Invertibility	https://www.youtube.com/watch?v=3d-_QboStto
13.	LTI Systems : Causality and Stability	https://www.youtube.com/watch?v=XGod4R22mEQ
14.	Laplace Transform : Poles and	https://www.youtube.com/watch?v=tKaGiZBgs90
15.	Laplace Transform : Region of Convergence [ROC]	https://www.youtube.com/watch?v=DvS5wgtU90w


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3rd Semester

Measurement and Instrumentation

Sr No.	Topic	NPTEL Video List
1.	PMMC Instruments	https://www.youtube.com/watch?v=n1MinLtvnPY
2.	Ammeter	https://www.youtube.com/watch?v=ti_QOxnVlKA
3.	Voltmeter	https://www.youtube.com/watch?v=GsfCZvhlNJY
4.	Ohmmeters	https://www.youtube.com/watch?v=CcfrEl1kxq8
5.	Moving Iron Instruments	https://www.youtube.com/watch?v=ziFWOGRcExk
6.	Sensitivity, Accuracy, and Resolution of Wheatstone Bridge	https://www.youtube.com/watch?v=ip6P7-gT2OE
7.	Kelvin Double Bridge	https://www.youtube.com/watch?v=hP59aaUr8iY
8.	Single Phase Energy Meter	https://www.youtube.com/watch?v=NBAhl2UxvW0

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4th Semester

Data structure & Algorithm

Sr No.	Topic	NPTEL Video List
1.	Introduction to Data Structures and Algorithms	https://www.youtube.com/watch?v=zWg7U0OEAoE
2.	Stacks	https://www.youtube.com/watch?v=g1USSZVWDsY
3.	Queues and Linked Lists	https://www.youtube.com/watch?v=PGWZUgzDMYI
4.	Dictionaries	https://www.youtube.com/watch?v=BmayUdDaDYM
5.	Hashing	https://www.youtube.com/watch?v=KW0UvOW0XIo
6.	Trees	https://www.youtube.com/watch?v=tORLeHHtazM
7.	Deletion	https://www.youtube.com/watch?v=KyMiqaA0ijM
8.	Quick Sort	https://www.youtube.com/watch?v=gtWw_8VvHjk
9.	Binary Heaps	https://www.youtube.com/watch?v=HjPmZuOXkHQ
10.	Graphs	https://www.youtube.com/watch?v=9zpSs845wf8
11.	Depth First Search	https://www.youtube.com/watch?v=CI6RzdoPCI
12.	Single Source Shortest Paths	https://www.youtube.com/watch?v=ng1oliu806U
13.	Correctness of Dijkstras Algorithm	https://www.youtube.com/watch?v=NR0qG64gZUs

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4th Semester

Analog system design

Sr No.	Topic	NPTEL Video List
1.	Op-amp Based Linear Voltage Regulator	https://www.youtube.com/watch?v=5rRKmZs2liI
2.	Short circuit protection for linear power supply	https://www.youtube.com/watch?v=-slwk4Ydw6c
3.	Operational Amplifier as Differential Amplifier	https://www.youtube.com/watch?v=dgg6cIf4LTE
4.	Operational Amplifier as Integrator	https://www.youtube.com/watch?v=BfjdB09VINQ
5.	Operational Amplifier as Differentiator	https://www.youtube.com/watch?v=9SD2f3uTdus
6.	Operational Amplifier as Comparator	https://www.youtube.com/watch?v=OtQQwlmKtL8
7.	Operational Amplifier as phase shift oscillator	https://www.youtube.com/watch?v=BeOpnJeJ0w8
8.	Operational Amplifier as wein bridge oscillator	https://www.youtube.com/watch?v=M3MTArEAUw0
9.	Operational Amplifier as Astable Multivibrator	https://www.youtube.com/watch?v=XTTdQwI0H4E
10.	Operational Amplifier as Monostable Multivibrator	https://www.youtube.com/watch?v=EOxjmbdLIXM
11.	Filters	https://www.youtube.com/watch?v=LL3U-Gp-qGk

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4th Semester

Analog and Digital Communication

Sr No.	Topic	NPTEL Video List
1.	Amplitude Modulation	https://www.youtube.com/watch?v=UznnkHMisIk
2.	SSB - SC	https://www.youtube.com/watch?v=oRMfN0K9cWU
3.	VSB-SC	https://www.youtube.com/watch?v=pgU-PZ8UZAs
4.	Noise Analysis - DSB-SC	https://www.youtube.com/watch?v=kavvx6V_gJU
5.	Frequency Modulation	https://www.youtube.com/watch?v=qY_yg2igDjg
6.	Pulse Modulation Schemes - PWM and PPM	https://www.youtube.com/watch?v=OE_05sAxxJ8
7.	Data Modulation	https://www.youtube.com/watch?v=tMmaNpo52ao&t=7s
8.	Pulse Code Modulation	https://www.youtube.com/watch?v=l_SqkcP6hZ4&t=8s
9.	Digital Modulation Techniques	https://www.youtube.com/watch?v=ZWlglqklgcw
10.	Information Theory	https://www.youtube.com/watch?v=nvmo9voRiSs
11.	Source Coding	https://www.youtube.com/watch?v=aVD1kmBJSsk
12.	Channel Coding	https://www.youtube.com/watch?v=G2Xk9fvCN_0
13.	Introduction to Spread Spectrum Communication	https://www.youtube.com/watch?v=5y-7gd4XUpY

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4th Semester

Microcontroller & Application

Sr No.	Topic	NPTEL Video List
1.	8051 Microcontroller	https://www.youtube.com/watch?v=V9AzfvkWPW0
2.	8051 Programming Examples	https://www.youtube.com/watch?v=scdMQFzhysc
3.	ARM	https://www.youtube.com/watch?v=tqjXYjrL5w8
4.	AVR	https://www.youtube.com/watch?v=0fc0IbeCR14
5.	Interfacing	https://www.youtube.com/watch?v=DpMxQzHhyyc
6.	Basics of IoT Networking	https://www.youtube.com/watch?v=fByKuk2VmJc
7.	Introduction to ARDUINO	https://www.youtube.com/watch?v=NkZdosZH6Wo
8.	PIC	https://www.youtube.com/watch?v=sUkgUQ9mpcg
9.	Serial Interfaces	https://www.youtube.com/watch?v=ODKOfLL7sB4
10.	Interfacing with Arduino UNO	https://www.youtube.com/watch?v=CFL3E0or2HU&t=5s


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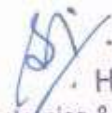
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5th Semester

Embedded System Design

Sr No.	Topic	NPTEL Video List
1.	Embedded Systems: Introduction	https://www.youtube.com/watch?v=y9RAhEflfJs
2.	Embedded Hardware	https://www.youtube.com/watch?v=C04ZthY8Yqk
3.	ARM Processor	https://www.youtube.com/watch?v=4VRTujwa_b8
4.	More ARM Instructions	https://www.youtube.com/watch?v=VcQlOUPC7S0
5.	ARM: Interrupt Processing	https://www.youtube.com/watch?v=8Umh-E7bi_I
6.	Memory	https://www.youtube.com/watch?v=cjNORC_00_A
7.	Memory Organization	https://www.youtube.com/watch?v=VkJUlvzpobw
8.	Virtual Memory and Memory Management Unit	https://www.youtube.com/watch?v=TF_KP4SMIfM
9.	Bus Structure	https://www.youtube.com/watch?v=46ijB39f3Hk
10.	Serial Interfaces	https://www.youtube.com/watch?v=ODKOfLL7sB4
11.	Software for Embedded Systems	https://www.youtube.com/watch?v=IY4xrpJQwOY
12.	Fundamentals of Embedded Operating Systems	https://www.youtube.com/watch?v=hELr9-7aAG8
13.	Scheduling Policies	https://www.youtube.com/watch?v=MVfHrlpOjP4
14.	Embedded - OS	https://www.youtube.com/watch?v=9NAIG2Pmzfg


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5th Semester

Electromagnetic Waves

Sr No.	Topic	NPTEL Video List
1.	Introduction to Vector	https://www.youtube.com/watch?v=pGdr9WLto4A
2.	Coulomb's Law	https://www.youtube.com/watch?v=0A45kt2U3U8
3.	Electric Field	https://www.youtube.com/watch?v=6FZusYyg0Po
4.	The Gradient	https://www.youtube.com/watch?v=nb-iuxOCcB8
5.	Gauss's Law	https://www.youtube.com/watch?v=whv_d-fBCg0
6.	Divergence and Curl of Vector Fields	https://www.youtube.com/watch?v=SZCsFS9izfQ
7.	Ampere's Law	https://www.youtube.com/watch?v=eXW5yk_1sCo
8.	Transmission Lines	https://www.youtube.com/watch?v=SVDGe_myYOY
9.	Conservative Field, Stoke's Theorem	https://www.youtube.com/watch?v=MZILJp2iKUs
10.	Waveguides	https://www.youtube.com/watch?v=WOpbbF-NndI
11.	Radiation	https://www.youtube.com/watch?v=Q8tJP2xdWIQ
12.	Total internal reflection	https://www.youtube.com/watch?v=grKhtjhFIKg


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5th Semester

Digital Signal Processing

Sr No.	Topic	NPTEL Video List
1.	Digital Signal Processing Introduction	https://www.youtube.com/watch?v=6dFnpz_AEyA
2.	Discrete Time Fourier Transform	https://www.youtube.com/watch?v=Q8wuqYsdnSs
3.	Z Transform	https://www.youtube.com/watch?v=gkC7cXa8ewk
4.	Simple Digital Filters	https://www.youtube.com/watch?v=RJEaTJuX_A&t=5s
5.	Problem Solving Session: FT, DFT, & Z Transforms	https://www.youtube.com/watch?v=OvkEOgxdbE
6.	Analog Chebyshev LPF Design	https://www.youtube.com/watch?v=2IZtWnGV-K4
7.	Digital Filter Structures	https://www.youtube.com/watch?v=Z1N0qeiw9oE
8.	IIR Realizations	https://www.youtube.com/watch?v=4Q-R1E5B40Q
9.	FIR Digital Filter Design by Windowing	https://www.youtube.com/watch?v=nsK7mmRSTDY
10.	Sampling	https://www.youtube.com/watch?v=WUCMavXbJo4
11.	Discrete Time Signals and Systems	https://www.youtube.com/watch?v=a5xq-XeD5V8
12.	Correlation	https://www.youtube.com/watch?v=gChPGqWbMUQ&t=938s


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5th Semester

**Industrial Economics and Entrepreneurship
 Development**

Sr No.	Topic	NPTEL Video List
1.	Capital Financing	https://www.youtube.com/watch?v=n25pQ3hTxAE
2.	Theory of Market	https://www.youtube.com/watch?v=HylqSa58lqQ
3.	Monopoly	https://www.youtube.com/watch?v=6zpXyN0c9Ec
4.	Monopolistic	https://www.youtube.com/watch?v=ioXCpGEV9hY
5.	Oligopoly	https://www.youtube.com/watch?v=P3VMSWjMiAg
6.	Basic Tools of Economic Analysis and Optimization Techniques	https://www.youtube.com/watch?v=fHaLSERvgBA
7.	Introduction to Corporate Finance	https://www.youtube.com/watch?v=ghuj_EkrJgk
8.	Capital Budgeting Decisions	https://www.youtube.com/watch?v=xy951WSRjsl
9.	Introduction to Cost of Capital	https://www.youtube.com/watch?v=FKieG_q_3lw
10.	Globalization Definition	https://www.youtube.com/watch?v=HH-n8Yrqb8
11.	Financial Management for Managers	https://www.youtube.com/watch?v=TgF2XvjquUU

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5th Semester

Operating system

Sr No.	Topic	NPTEL Video List
1.	Introduction	https://www.youtube.com/watch?v=qJ_bXhrUOkc&t=4s
2.	Operating System Structures	https://www.youtube.com/watch?v=Z5WyCU9uupo&t=2s
3.	Threads	https://www.youtube.com/watch?v=s1KsWNqezbY
4.	Scheduling	https://www.youtube.com/watch?v=Q6rniXYglUM
5.	Process Synchronization	https://www.youtube.com/watch?v=QVnlPazt8EM&t=1s
6.	Deadlock	https://www.youtube.com/watch?v=vOfKOg0rFg4&t=2s
7.	Memory Management	https://www.youtube.com/watch?v=MLbdsuxYAF4
8.	File System and Secondary Storage	https://www.youtube.com/watch?v=Fjz3PKJGe5s&t=2s
9.	Virtual Memory	https://www.youtube.com/watch?v=u_yGUHEXREY

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6th Semester

Computer Communication Networks

Sr No.	Topic	NPTEL Video List
1.	Introduction to Communication Networks	https://www.youtube.com/watch?v=-jCaubALmik&t=4s
2.	Circuit Switch Networks	https://www.youtube.com/watch?v=oDlfqUeJoGs
3.	Introduction to Computer Networks – A brief history	https://www.youtube.com/watch?v=lnU-Zw3NEEQ
4.	Data Networks – from Circuit Switching Network to Packet Switching Network	https://www.youtube.com/watch?v=29Qdz0FmvmQ
5.	Network Protocol Stack	https://www.youtube.com/watch?v=b6f9vh3cd6w
6.	Different Protocols at the Application Layer	https://www.youtube.com/watch?v=5AHp0f0489E
7.	Transport Layer I – Services	https://www.youtube.com/watch?v=8-3CSAksCYU
8.	Introduction to Network Protocol Layers	https://www.youtube.com/watch?v=9QaylSruzo
9.	TCP/IP	https://www.youtube.com/watch?v=zzXs0EnCin0
10.	Shortest Path Problem	https://www.youtube.com/watch?v=wVu5qN0E4ww
11.	Dijkstras Algorithm	https://www.youtube.com/watch?v=NR0qG64gZUs

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6th Semester

Internet of Things

Sr No.	Topic	NPTEL Video List
1.	Introduction to IOT	https://www.youtube.com/watch?v=WUYAjsxwU4
2.	Introduction to Python Programming	https://www.youtube.com/watch?v=oNWnB3dZWNM&t=1s
3.	Introduction to raspberry pi	https://www.youtube.com/watch?v=s2AKMERnBhQ&t=1s
4.	Case study: Agriculture	https://www.youtube.com/watch?v=Bq4_mvxcP68
5.	Case study: Healthcare	https://www.youtube.com/watch?v=VeMDQHyBSaA
6.	Sensing	https://www.youtube.com/watch?v=jbMWEEdq3Kg
7.	Actuation	https://www.youtube.com/watch?v=SXz0XR68dwE
8.	Basics of IOT Networking	https://www.youtube.com/watch?v=fByKuk2VmJc
9.	Medium Access Control	https://www.youtube.com/watch?v=sx0UPzztC5o
10.	Internet Routing Protocol	https://www.youtube.com/watch?v=601x64peZtU

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6th Semester

Wireless Sensor Networks

Sr No.	Topic	NPTEL Video List
1.	Introduction: Wireless Ad Hoc Networks	https://www.youtube.com/watch?v=ycaz99NogS4&t=1s
2.	MAC Protocols in MANETs	https://www.youtube.com/watch?v=IASr8e_8UK4
3.	IEEE 802.15.4e	https://www.youtube.com/watch?v=-p-DQxeVlvM
4.	Routing in MANETs	https://www.youtube.com/watch?v=mdkr6GV5HvE
5.	Opportunistic Mobile Networks	https://www.youtube.com/watch?v=VJ9IZqmuCgo
6.	Introduction: Wireless Sensor Networks	https://www.youtube.com/watch?v=GUSrkWJ_Z2g
7.	WSN Coverage & Placement	https://www.youtube.com/watch?v=D68HE62-8_w
8.	Topology Mangement in Wireless Sensor Network	https://www.youtube.com/watch?v=NAAaIoRriIg
9.	Mobile Wireless Sensor Networks	https://www.youtube.com/watch?v=hfqVcRplVxc
10.	Medium Access Control in Wireless Networks	https://www.youtube.com/watch?v=Q9nez9IMC3M
11.	Routing in Wireless Sensor Networks	https://www.youtube.com/watch?v=OaUE4otTsuc
12.	Congestion and Flow Control	https://www.youtube.com/watch?v=ZL0o3OTYJeo


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6th Semester

Effective technical Communication

Sr No.	Topic	NPTEL Video List
1.	Introduction	https://www.youtube.com/watch?v=cQruENyLNYI
2.	Report Writing	https://www.youtube.com/watch?v=Xp2PVO3do34
3.	Group Discussion	https://www.youtube.com/watch?v=UcEq_RsCyxY
4.	Group Discussion	https://www.youtube.com/watch?v=UcEq_RsCyxY
5.	Writing Emails	https://www.youtube.com/watch?v=by4m2kvuwso
6.	Articles	https://www.youtube.com/watch?v=glPEX_EKjUw
7.	Verbs	https://www.youtube.com/watch?v=mXhXqjX72lo
8.	Effective Speaking	https://www.youtube.com/watch?v=B53VM3FKag0
9.	Formal Presentation	https://www.youtube.com/watch?v=nK2NgiAp4VU
10.	Essay Writing	https://www.youtube.com/watch?v=ThOGkWDZ2fU
11.	Paragraph Writing	https://www.youtube.com/watch?v=5Q14vPRu9_E


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6th Semester

Computer Architecture (Elective-II)

Sr No.	Topic	NPTEL Video List
1.	Introduction to Computer Architecture	https://www.youtube.com/watch?v=4TzMyXmzL8M
2.	Fast Adder Circuits	https://www.youtube.com/watch?v=xKXX4J-BMDg
3.	Fast Multiplier Circuit	https://www.youtube.com/watch?v=-fPF2ViZDNo
4.	Cache Organisation	https://www.youtube.com/watch?v=f1VzlpVILnM
5.	Floating Point Arithmetic	https://www.youtube.com/watch?v=03fhijH6e2w
6.	Pipelined Processor Design Basic Idea	https://www.youtube.com/watch?v=pIBwr7Rx-lM
7.	Memory Hierarchy : Cache Organization	https://www.youtube.com/watch?v=6F6NP1lrRpe
8.	Input / Output Subsystem	https://www.youtube.com/watch?v=0XybwAbup-w
9.	Synchronization	https://www.youtube.com/watch?v=28N7lhcNUg8&t=2s
10.	Basic pipelining, branch prediction	https://www.youtube.com/watch?v=xZpyjp5IVo0
11.	Dynamic scheduling, speculative execution	https://www.youtube.com/watch?v=Ofg7brCP2WM
12.	Addressing Modes	https://www.youtube.com/watch?v=p9wxyIx-j-c
13.	Virtual Memory	https://www.youtube.com/watch?v=3ye2OXj32DM


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6th Semester

Antenna and Wave Propagation (Elective-II)

Sr No.	Topic	NPTEL Video List
1.	Antenna Introduction	https://www.youtube.com/watch?v=wx_tlvaajAI&t=5s
2.	Antenna Fundamentals	https://www.youtube.com/watch?v=Q6Ub2KJxV7A&t=1s
3.	Dipole Antennas	https://www.youtube.com/watch?v=HrSISqBPntY
4.	Monopole Antennas	https://www.youtube.com/watch?v=Y6zE5lr_Kjo
5.	Loop Antennas	https://www.youtube.com/watch?v=DHBvqFKeryA
6.	Linear Arrays	https://www.youtube.com/watch?v=ok_UliNeIEg
7.	Planar Arrays	https://www.youtube.com/watch?v=AlsZqFT03C4
8.	Microstrip Antennas (MSA)	https://www.youtube.com/watch?v=4RbVqpSWk4c
9.	Rectangular MSA	https://www.youtube.com/watch?v=HsvipSFqAhM
10.	Circular MSA	https://www.youtube.com/watch?v=j4kA7Akf8l4
11.	Reflector Antennas	https://www.youtube.com/watch?v=v3qDI5mWWuI
12.	Radiation Parameters of antenna	https://www.youtube.com/watch?v=7qmiaU0XW8
13.	Receiving antenna	https://www.youtube.com/watch?v=Fp2bmH0u69o

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6th Semester

Consumer Electronics (Open Elective-I)

Sr No.	Topic	NPTEL Video List
1.	Microphone	https://www.youtube.com/watch?v=KrdI5ybt4Jo
2.	Loudspeaker	https://www.youtube.com/watch?v=zBod_5oPGSE

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7th Semester

DSP Processors and Architecture

Sr No.	Topic	NPTEL Video List
1.	Bus Structure	https://www.youtube.com/watch?v=46ijB39f3Hk
2.	DSP Processors	https://www.youtube.com/watch?v=04UvJkki0lg
3.	Pipelining Introduction	https://www.youtube.com/watch?v=3p8kZpT56lQ
4.	Allocation, Binding and Scheduling	https://www.youtube.com/watch?v=hOfof1E1piA
5.	Cache Memory Architecture	https://www.youtube.com/watch?v=u_B_pCkAgak
6.	CPU - Memory Interaction	https://www.youtube.com/watch?v=mAK9KklkRYY
7.	Discrete Fourier Transform (DFT)	https://www.youtube.com/watch?v=GDFTb-BwA0o
8.	FFT and Computer Aided Design of Filters	https://www.youtube.com/watch?v=vIFdVYAXlXg
9.	Operation Block Diagram of DSP	https://www.youtube.com/watch?v=SKuywStjBLY
10.	Fundamentals of wavelet filter	https://www.youtube.com/watch?v=fh0I5ATxWi8&t=1s
11.	Decimation and interpolation filters	https://www.youtube.com/watch?v=rqO6IVAj_NE&t=2s


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7th Semester

Television and Video Engineering

Sr No.	Topic	NPTEL Video List
1.	TV Transmission	https://www.youtube.com/watch?v=EAYbx dgS2T4
2.	Audio and Video Compression	https://www.youtube.com/watch?v=rC16fhvXZOo
3.	Antenna Introduction	https://www.youtube.com/watch?v=wx_tlvaa jAI
4.	MPEG - 1 Audio Coding	https://www.youtube.com/watch?v=hXGLEVB8pvA
5.	display devices	https://www.youtube.com/watch?v=GzpaDTbXMiQ


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7th Semester

Optical Communication

Sr No.	Topic	NPTEL Video List
1.	Overview of Fiber-optic communications	https://www.youtube.com/watch?v=XgcDYxRtP_k
2.	Optical Transmitter	https://www.youtube.com/watch?v=zwKxumdTGmY
3.	Optical receivers	https://www.youtube.com/watch?v=4rrzOxfN_2A
4.	Modes in Optical fiber	https://www.youtube.com/watch?v=MafJOFpdmIU
5.	Dispersion in Fibers	https://www.youtube.com/watch?v=F_-rnlTikPg
6.	Attenuation in optical fibers	https://www.youtube.com/watch?v=M2uKku2R_QI
7.	Modes of a step index fiber	https://www.youtube.com/watch?v=UVN8K0M0dX4&t=6s
8.	Dispersion- Intermodal dispersion	https://www.youtube.com/watch?v=eGDcvmPPhM
9.	Optical sources: LED	https://www.youtube.com/watch?v=ls8DF2Hvqok
10.	Optical Sources: Laser Diodes over LEDs	https://www.youtube.com/watch?v=G0d34Bhu-Us
11.	Total Dispersion in optical fiber	https://www.youtube.com/watch?v=ZA2AYQsyTgl
12.	Coherent Receivers	https://www.youtube.com/watch?v=ic3tgUEyIDo
13.	Scattering Processes in optical fibers	https://www.youtube.com/watch?v=Ky243cCqku4
14.	Splice Loss	https://www.youtube.com/watch?v=viw67UzWFgM
15.	Optical Amplifier	https://www.youtube.com/watch?v=5dIYNJWkzTc

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7th Semester

Advanced Digital System Design

Sr No.	Topic	NPTEL Video List
1.	Introduction to VHDL	https://www.youtube.com/watch?v=mwJ3uMWvJX0
2.	Introduction to Hardware Description Languages	https://www.youtube.com/watch?v=BI_2p9E6kXE
3.	Basic Components in VHDL	https://www.youtube.com/watch?v=k6eHc6kUJkk
4.	Introduction to EDA Software	https://www.youtube.com/watch?v=jJYgkI_sFTQ
5.	VHDL coding of FSM	https://www.youtube.com/watch?v=clqjulo23vo
6.	Mealy vs. Moore Machines Overview	https://www.youtube.com/watch?v=S352lyPZP00
7.	Introduction to Hardware Synthesis	https://www.youtube.com/watch?v=jXtlqcFyUpY
8.	FPGA Introduction	https://www.youtube.com/watch?v=ht7nEjNydDU
9.	Entity, Architecture and Operators	https://www.youtube.com/watch?v=KL6bCuRn6hA
10.	Concurrency, Data flow and Behavioural models	https://www.youtube.com/watch?v=qA6gfcyzMIE&t=5s
11.	Libraries and Packages	https://www.youtube.com/watch?v=ue6ZCpWn0fM
12.	VHDL Examples	https://www.youtube.com/watch?v=FYMQJM3QBtA
13.	VHDL Test bench	https://www.youtube.com/watch?v=IXjKDHIBeVI
14.	Evolution of PLDs	https://www.youtube.com/watch?v=i-ObHhDeNIw
15.	Xilinx Virtex FPGA's CLB	https://www.youtube.com/watch?v=bFjSTtWcywg
16.	Concurrent statements and Sequential statements	https://www.youtube.com/watch?v=6PWifdwJTzw

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7th Semester

Data Compression and encryption

Sr No.	Topic	NPTEL Video List
1.	Data Compression	https://www.youtube.com/watch?v=5wRPin4oxCo
2.	Shannon-Fano-Elias Coding	https://www.youtube.com/watch?v=MAOuXKkz-SI
3.	Arithmetic Coding	https://www.youtube.com/watch?v=z9Bx5bX7eDk
4.	Huffman Coding	https://www.youtube.com/watch?v=6OpHU1FVpxU
5.	μ -law companding	https://www.youtube.com/watch?v=Y0yRnwCh_hU
6.	A-law companding	https://www.youtube.com/watch?v=yoMoEmRg9-M
7.	MPEG - 1 Audio Coding	https://www.youtube.com/watch?v=hXGLEVB8pvA
8.	Block Cipher Standards (DES)	https://www.youtube.com/watch?v=eCAHcfA-2c8
9.	Overview on S-Box Design Principles	https://www.youtube.com/watch?v=cJ7hnmWHVwte
10.	Euler's Theorem	https://www.youtube.com/watch?v=Gr_UhaB6nZM
11.	The RSA Cryptosystem	https://www.youtube.com/watch?v=cOpYHlqis3o
12.	Diffie-Hellman Problem and Security of ElGamal Systems	https://www.youtube.com/watch?v=2kfAga111ls
13.	Message Authentication Codes	https://www.youtube.com/watch?v=IECb8emmN0M
14.	Cryptographic Hash Functions	https://www.youtube.com/watch?v=9XZ45SAnJnk
15.	Electronic Commerce	https://www.youtube.com/watch?v=xKJjyn8DaAw


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8th Semester

Microwave and Radar Engineering

Sr No.	Topic	NPTEL Video List
1.	Introduction to Microwave Engineering	https://www.youtube.com/watch?v=biInDg9CqRo
2.	Introduction to Waveguides and Rectangular Waveguide	https://www.youtube.com/watch?v=k-zeCttEYVQ
3.	Scattering Matrix (S-Parameters)	https://www.youtube.com/watch?v=PycKLQo4g50
4.	Directional couplers	https://www.youtube.com/watch?v=44mBn7nyMIM
5.	PIN Diodes and Control Circuits	https://www.youtube.com/watch?v=JlQB0yZw2as
6.	Gunn Diodes, IMPATT Diodes and Varactor Diodes	https://www.youtube.com/watch?v=h-uD3IEOLbM
7.	Introduction to Klystron	https://www.youtube.com/watch?v=-9QIUu0s-U
8.	Reflex Klystron, Magnetron and TWT	https://www.youtube.com/watch?v=fEMerwZwjSk
9.	Radar Bands and System Modeling	https://www.youtube.com/watch?v=9z3VabVf_AE
10.	Radar Equation	https://www.youtube.com/watch?v=3YS1Kc7Fffs
11.	CW Radar	https://www.youtube.com/watch?v=aoXuw1Ynd3l
12.	FM-CW Radar	https://www.youtube.com/watch?v=hl1bMGdJtyA

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8th Semester

Computer Communication Network

Sr No.	Topic	NPTEL Video List
1.	Introduction to Communication Networks	https://www.youtube.com/watch?v=-jCaubALmik&t=4s
2.	Circuit Switch Networks	https://www.youtube.com/watch?v=oDlfqUeJoGs
3.	Introduction to Computer Networks – A brief history	https://www.youtube.com/watch?v=lnU-Zw3NEEQ
4.	Data Networks – from Circuit Switching Network to Packet Switching Network	https://www.youtube.com/watch?v=29Qdz0FmvmQ
5.	Network Protocol Stack	https://www.youtube.com/watch?v=b6f9vh3cd6w
6.	Different Protocols at the Application Layer	https://www.youtube.com/watch?v=5AHp0f0489E
7.	Transport Layer I – Services	https://www.youtube.com/watch?v=8-3CSAksCYU
8.	Introduction to Network Protocol Layers	https://www.youtube.com/watch?v=9QaylSruzo
9.	TCP/IP	https://www.youtube.com/watch?v=zzXs0EnCin0
10.	Shortest Path Problem	https://www.youtube.com/watch?v=wVu5qN0E4ww
11.	Dijkstras Algorithm	https://www.youtube.com/watch?v=NR0qG64gZUs

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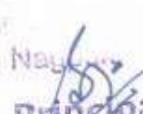
8th Semester

Wireless Mobile Communication

Sr No.	Topic	NPTEL Video List
1.	Overview of Cellular Systems	https://www.youtube.com/watch?v=f2wlHL1Sok8
2.	Cellular System Capacity, Trunking	https://www.youtube.com/watch?v=WF6rWdVfD28
3.	Handoff & Mobility	https://www.youtube.com/watch?v=Epy8tRSO5DY
4.	Mobile Radio Propagation	https://www.youtube.com/watch?v=X0vrUM4LOmk
5.	Channel Equalization and Inter Symbol Interference ISI Model	https://www.youtube.com/watch?v=IK-dtxHwoJQ
6.	Equalization and Diversity Technique	https://www.youtube.com/watch?v=gDZSJN9OPcI
7.	Polarization	https://www.youtube.com/watch?v=98xoZknQjI8
8.	Phase and Polarisation Diverse Coherent Receiver	https://www.youtube.com/watch?v=Pg3VTO-pSzl
9.	CDMA system Capacity	https://www.youtube.com/watch?v=xIQqt_sKhUI
10.	GSM and CDMA	https://www.youtube.com/watch?v=bur9hq_abog
11.	Introduction to 3G/4G Standards	https://www.youtube.com/watch?v=-ymnQ5rpcYA
12.	Mobile IP	https://www.youtube.com/watch?v=0QLRULNfbFg
13.	Wireless LANs	https://www.youtube.com/watch?v=YNmLYQWjYUY


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Embedded System

Sr No.	Topic	NPTEL Video List
1.	Embedded Systems: Introduction	https://www.youtube.com/watch?v=y9RAhEfLfJs
2.	Embedded Hardware	https://www.youtube.com/watch?v=C04ZthY8Yqk
3.	ARM Processor	https://www.youtube.com/watch?v=4VRtuiwa_b8
4.	More ARM Instructions	https://www.youtube.com/watch?v=VcQl0UPC7S0
5.	ARM: Interrupt Processing	https://www.youtube.com/watch?v=8Umh-E7bi_I
6.	Memory	https://www.youtube.com/watch?v=cjNORC_00_A
7.	Memory Organization	https://www.youtube.com/watch?v=VkfUlvzpobw
8.	Virtual Memory and Memory Management Unit	https://www.youtube.com/watch?v=TF_KP4SMIfM
9.	Bus Structure	https://www.youtube.com/watch?v=46ijB39f3Hk
10.	Serial Interfaces	https://www.youtube.com/watch?v=ODKOflL7sB4
11.	Networked protocol in Embedded System	https://www.youtube.com/watch?v=vn7aT9-cYzQ
12.	Interrupt service routine	https://www.youtube.com/watch?v=YBI9gljYAaQ
13.	Optimization Issues	https://www.youtube.com/watch?v=t0nEQOAYznk
14.	RISC and CISC Architecture	https://www.youtube.com/watch?v=7WVgdJ0z4D4

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8th Semester

Satellite Communication

Sr No.	Topic	NPTEL Video List
1.	Introduction	https://www.youtube.com/watch?v=dt4Ce8gQPns
2.	Orbit	https://www.youtube.com/watch?v=Kf9cmrBtE40
3.	Space Segment	https://www.youtube.com/watch?v=kf03VIHfFgg
4.	Link Budget	https://www.youtube.com/watch?v=YJXm0iRWmp4
5.	Propagation	https://www.youtube.com/watch?v=qUzxHNOBcxw
6.	Ground Segment	https://www.youtube.com/watch?v=Z442kCvaStY
7.	Multiple Access	https://www.youtube.com/watch?v=yJho5FERZQY
8.	Nonlinearity	https://www.youtube.com/watch?v=qc6lN92m0g4
9.	Synchronisation	https://www.youtube.com/watch?v=vhXdqEqT4Eo
10.	Satellite Navigation	https://www.youtube.com/watch?v=Tu5VCcx25So

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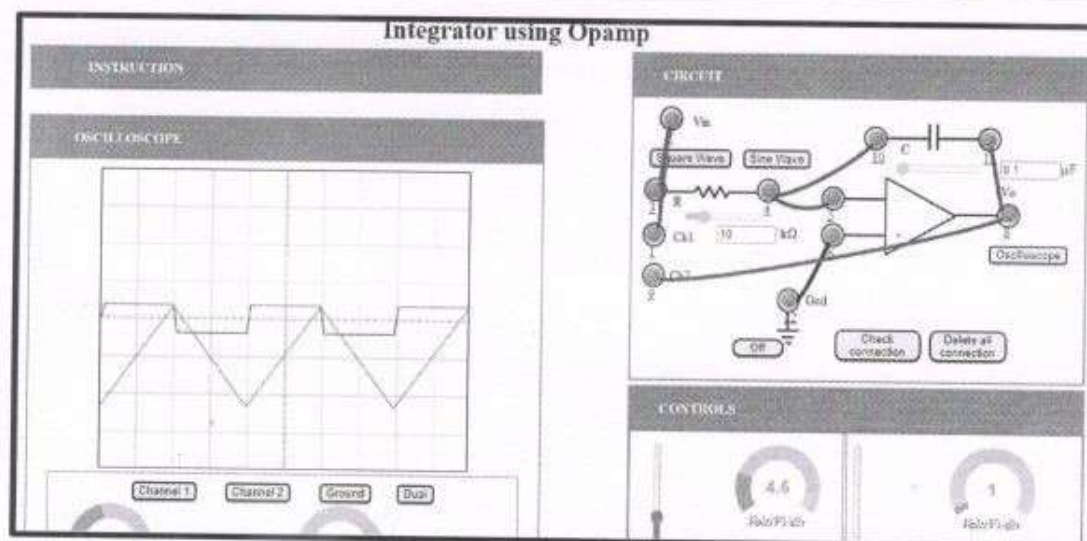
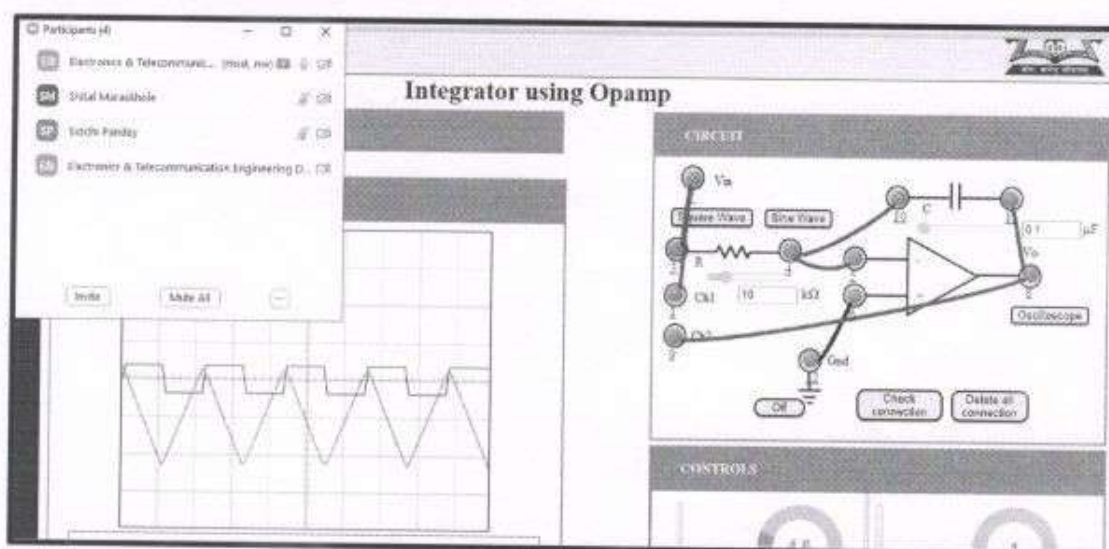


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Virtual Lab Conduction of Analog Circuit Design:

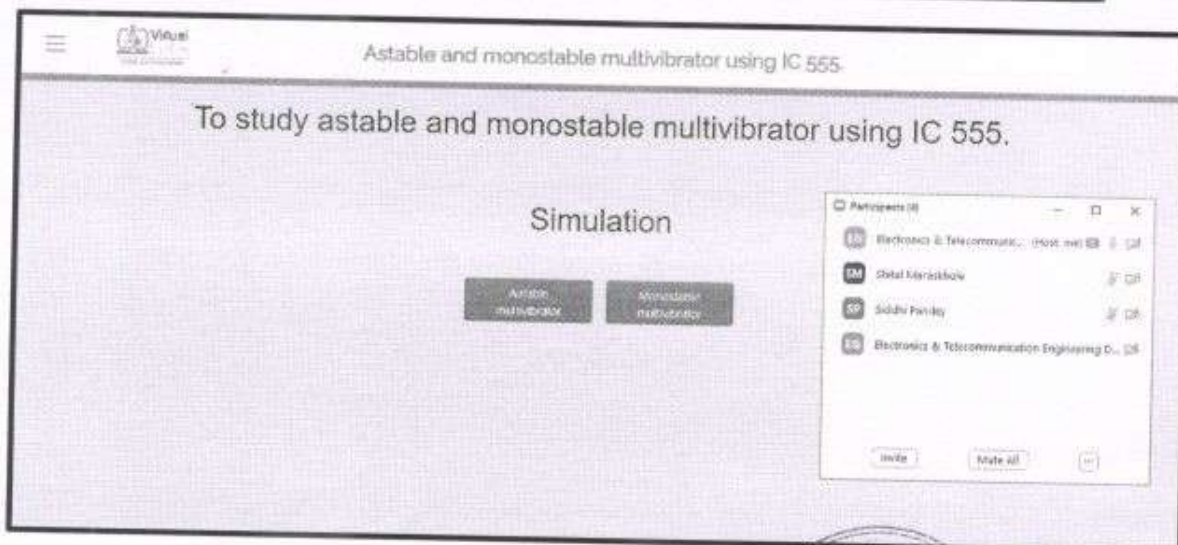
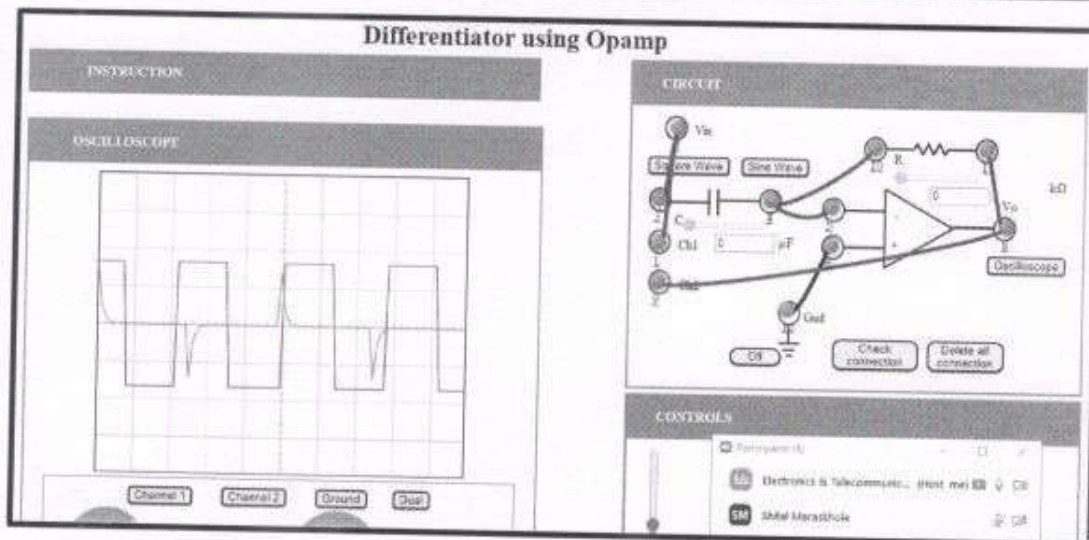
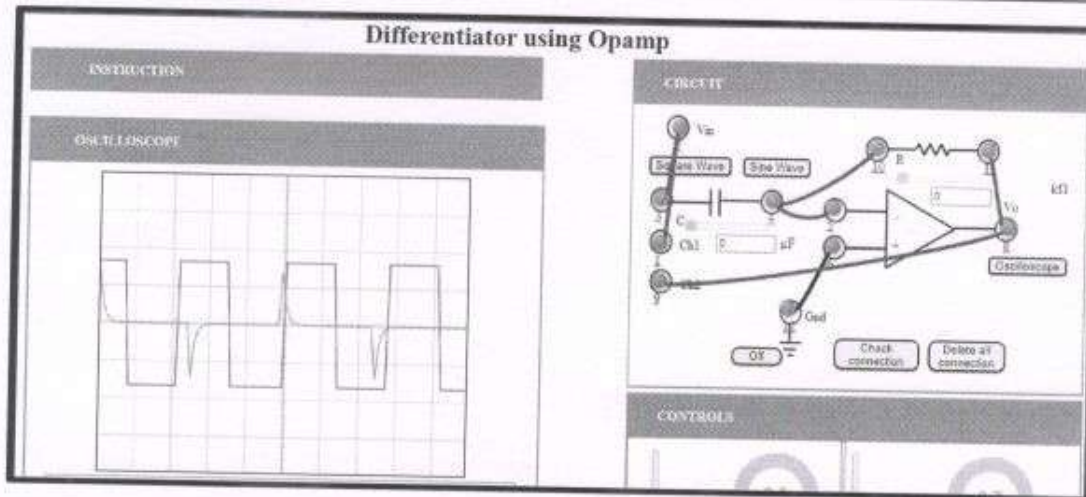



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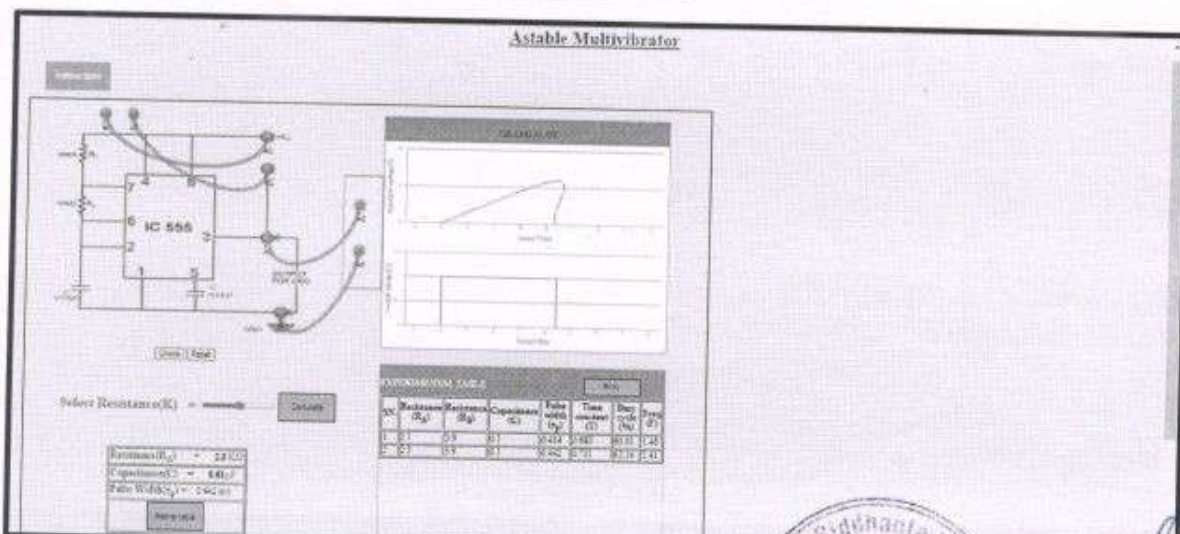
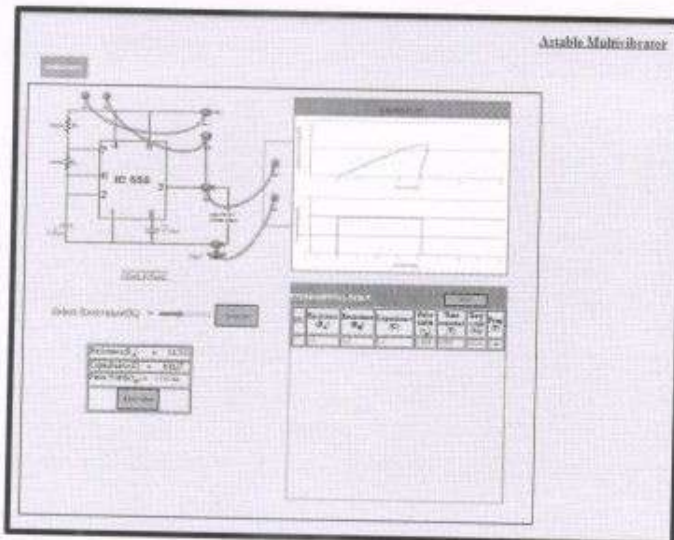
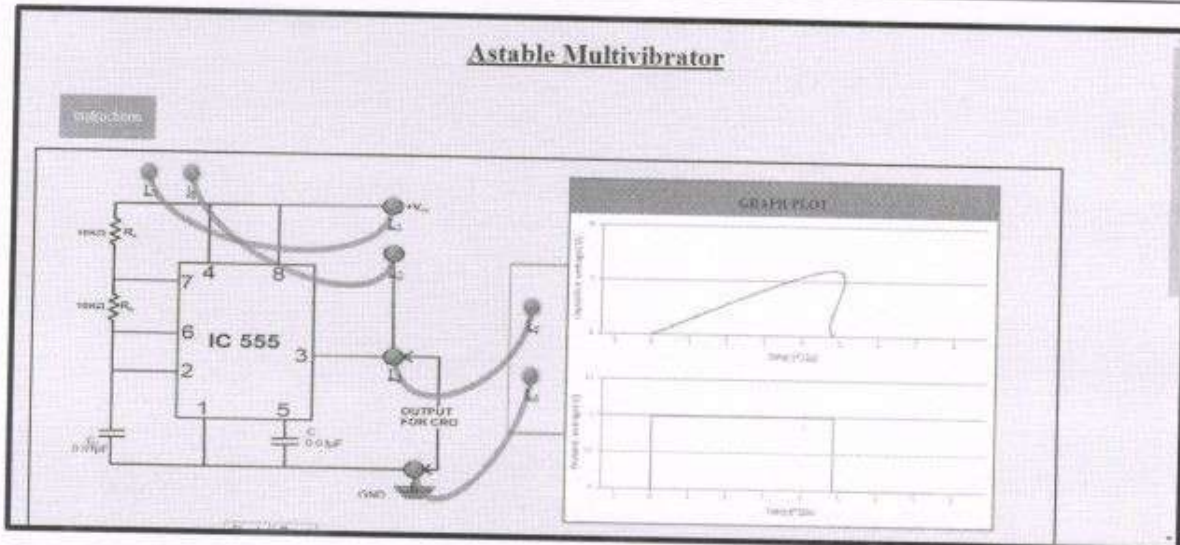



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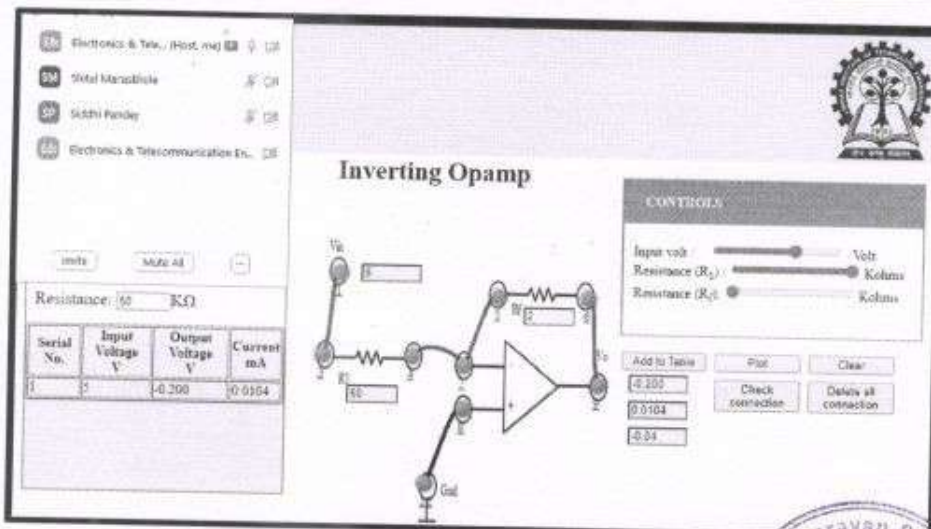
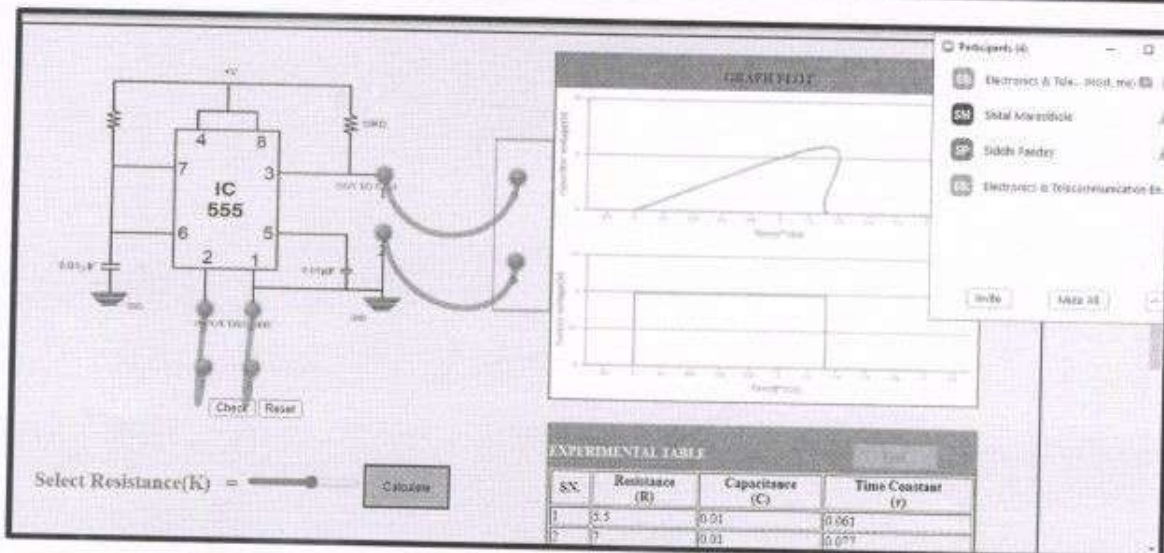
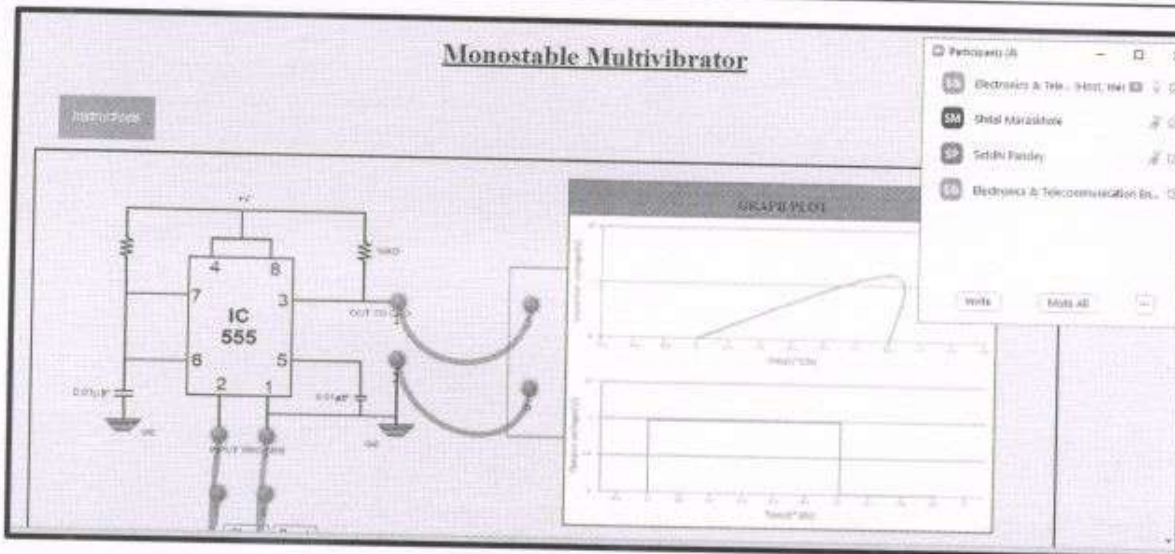
Astable Multivibrator



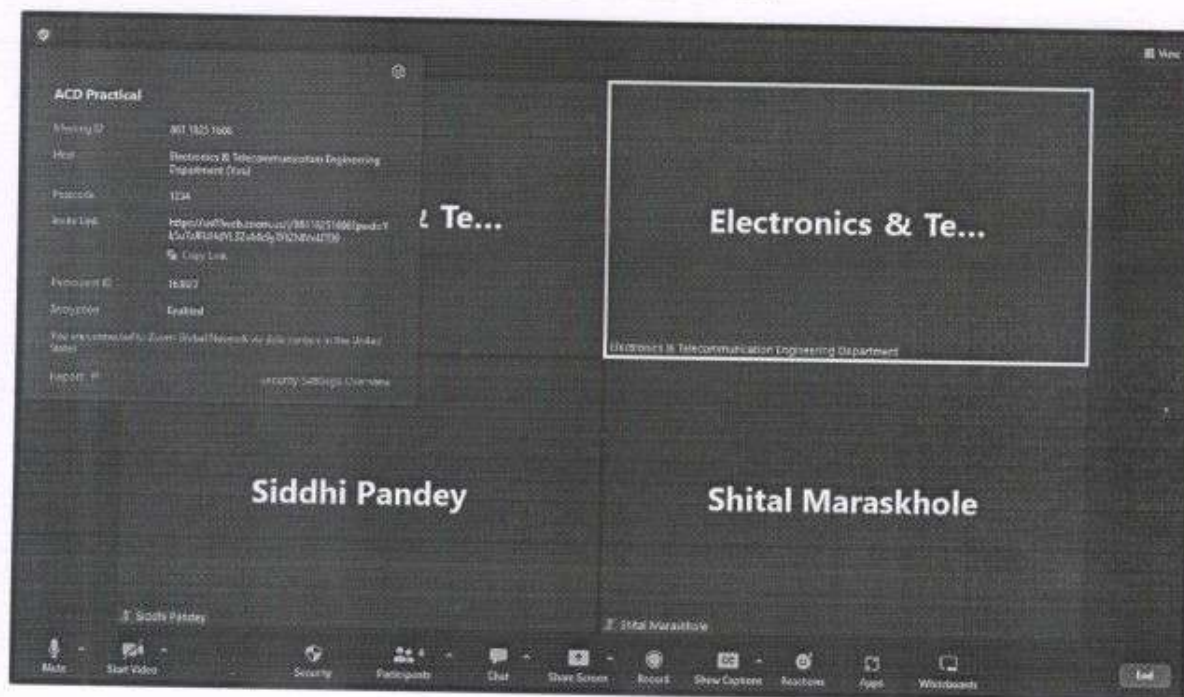
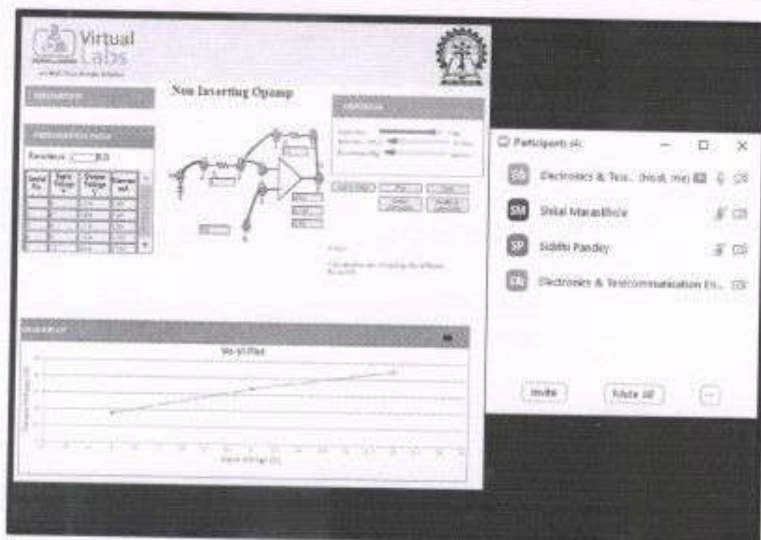
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PROJECT TOPICS

DATE: 23/08/2021

SEMESTER: 7th

SR. NO	STUDENTS NAME	GROUP	PROJECT TITLE	PROJECT GUIDE
1.	Md. Amin Parvez	1	Study of Fluoride content in Groundwater of chandrapur Region and fluoride Removal by Adsorption techniques	Hiradas Lilhare
2.	Nidhi Sharma			
3.	Prashant Joshi			
4.	Rahul Borkar			
5.	Atif Zaheer			
6.	Meraaj Ali	2	Domestic Wastewater treatment by Root Zone technology using Macrophytes	Hiradas Lilhare
7.	Kanta Sahu			
8.	Harish Lilhare			
9.	Kartik Gaurkar			
10.	Sharafraj Khan Hakue			
11.	Mrunal Kelkar	3	Hydraulic traffic Reduce system (HTRS)	Ankush Bansod
12.	Ankit Khadse			
13.	Sweety Meshram			
14.	Nikhil Ramteke			
15.	Shubhangi Sakhre			
16.	Shivajee Sing			
17.	Harshali Umredkar			



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18.	Akash Charde	4	Experimental Study of Pervious concrete	Md Sahajada Alam
19.	Rohit Pimpalkar			
20.	Saurav Ponikar			
21.	Shubham Kelzarkar			
22.	Vishal Gharat			
23.	Ajay Nageshwar	5	Snow Free concrete Surface using Hydronic Radiant heat	Pratik Patil
24.	Ajay Vitalkar			
25.	Suresh Meshram			
26.	Tanveer Hussain			
27.	Swadeep Shambharkar	6	An Investigation on Bacterial concrete	Girish Kawale
28.	Shaharukalli Saiyyad			
29.	Ashish Khadilkar			
30.	Priti Tayade			
31.	Shivkumar Netragoankar			
32.	Akshay Khokle			
33.	Ranjeet Yesankar			
34.	Navin Gaikawad			

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20.	Mustafa Ahemad	5	Analysis of overhead water tank with different types of bracing patterns for all seismic zones using staad pro.	Girish Kawale
21.	Ashish Patale			
22.	Akash Pazare			
23.	Arpit Pandey			
24.	Naseerudin Mansoori	6	Light weight concrete by using EPS beads	Girish Kawale
25.	Lovkumar Kanojiya			
26.	Fuzail Ahmad			
27.	Sameer Sheikh			
28.	Rukhmangad Rewalkar			
29.	Md. Shadab Khan			
30.	Vivek Kumar Singh	7	Industrial wastewater treatment	Hiradas Lilhare
31.	Harshal Shrikhande			
32.	Yash Jambutkar			
33.	Shubham Kakde			
34.	Pranay Raut			

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PROJECT TOPICS

DATE: 10/07/2018

SEMESTER: 7th

SR. NO	STUDENTS NAME	GROUP	PROJECT TITLE	PROJECT GUIDE
1.	Rakesh Dhule	1	Waste Minimization & Demolition in Infrastructure Project	Dr. Arif Khan
2.	Mahesh Lothe			
3.	Gayatri Dhote			
4.	Raviranjana Kushwaha			
5.	Dipali Padwekar			
6.	Nitesh Kamli	2	Comparison of Field Density of Soil by various methods	Dr. Arif Khan
7.	Sneha Thakur			
8.	Lekhpal Taram			
9.	Jagdish Bondre			
10.	Priya Singare			
11.	Swapnil Wasnik	3	Study on Lifting of Residential Structure	Dr. Arif Khan
12.	Manoranjana Mazhi			
13.	Siddharth Sharma			
14.	Piyush Kolhe			
15.	Udit Dixit			
16.	Sourabh Bandharkar			
17.	Vivek Nandeshwar			



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PROJECT TOPICS

DATE: 18/07/2017

SEMESTER: 7th

SR. NO	STUDENTS NAME	GROUP	PROJECT TITLE	PROJECT GUIDE
1.	Arpit Wazarkar	1	Study of Pavement using Geosynthetic Material	Sourabh Kar
2.	Md Sahajada Alam			
3.	Jivan Marbate			
4.	Md Asif Siddiqi			
5.	Narendra Chavhan			
6.	Hiraman Madavi	2	Construction of Low Cost House	Sourabh Kar
7.	Sachin Maraskolhe			
8.	Prakash Madavi			
9.	Vishweshwar Margaye			
10.	Plash Parmal			
11.	Abhisheikh Lakshane	3	Rooftop Rain Water Harvesting System	Sourabh Kar
12.	Nisha Nikame			
13.	Khalid Khan			
14.	Junaid Khan			
15.	Ataur Rahman Abdul Gafoor			
16.	Mohammad Shaqueeb	4	Enhancement of Green Building with porous Concrete as a Paving Material	Sourabh Kar
17.	Nitish Kumar			
18.	Shahrukh Khan			
19.	Vikash Mehta			
20.	Premchand Kumar			
21.	Uma Karade			



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Computer Engineering Department



MEGA PROJECT DETAILS

Sr. No.	Branch	Semester	Session	Students Name	Project Title
	Information Technology	B.E. 8th Sem	2017-18	Kalpesh Pimpalkar	Instant Messenger
				Shalini Rane	
				Punam Lohakare	
				Savita Lohakare	
2	Computer Engineering	B.E. 8th Sem	2017-18	Aastha Verma	Extraction of Text Using Data Mining
				Bhavna Shende	
				Ajay Tandekar	
3	Computer Engineering	B.E. 8th Sem	2017-18	Waman Murudkar	Online Aptitude
				Ravina Bhange	
				Pawan Sahu	
4	Computer Engineering	B.E. 8th Sem	2017-18	Yogesh Telhe	I Smart Solution Application
				Pooja Bhade	
				Sonali Patil	
				Pragya Lade	



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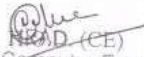
5	Computer Engineering	B.E. 8th Sem	2017-18	Abhishek Deo	Phishing Page Detection
				Rohini Tiigga	
				Sandeep Kumar	
6	Computer Science & Engineering	M.tech 4th Sem	2017-18	Priyanka Jawanjar	Real Time Design and Development of Li-Fi Technology For Wireless Data Transmission
7	Computer Science & Engineering	M.tech 4th Sem	2017-18	Tasnim Kausar	Multimedia Graphical Grid Based Text Password Authentication for Advanced user
8	Computer Science & Engineering	M.tech 4th Sem	2017-18	Gulfsan Parveen	Automated Question Answering System Depend Upon Crowd Sourcing
9	Information Technology	B.E. 8th Sem	2018-19	Shyamli Tembhekar	Facial Expression Recognition
10	Computer Engineering	B.E. 8th Sem	2018-19	Ragini Shende	Web Based Project Management System for small to midsize business
11	Computer Engineering	B.E. 8th Sem	2018-2019	Arti Chaoure	Security Enhance using Hash and chaotic Algorithm in cloud
				Priyanka Chikhale	
				Sneha Chorasaya	
				Shradhha Ninave	
12	Computer Engineering	B.E. 8th Sem	2018-2019	Ashwarya Bambole	Attendance Management system by facial Expression
				Prerna Gedam	
				Sneha L. Tekam	
				Rudresh Dongre	
13	Computer Engineering	B.E. 8th Sem	2018-2019	Dileshwari Lilhare	V - mail (Voice Based mail Application)
				Nikita Bhoyar	
				Usma Lakra	



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14	Computer Engineering	B.E. 8th Sem	2018-19	Himanshu Balpande	I Smart Solution Application
15	Computer Science & Engineering	M.tech 4th Sem	2018-19	Vijayata Ramteke	Design and Implementation of Global Data Deduplication for a Scaleout Distributed Storage
16	Computer Science & Engineering	M.tech 4th Sem	2018-19	Shaziya Shaheen Wakeel Parvez	Using Big Data To Defend Machines Against Network
17	Computer Science & Engineering	M.tech 4th Sem	2018-19	Urvashi Gautam	Document Clustering for Forensic Analysis: An Approach for Improving Computer Inspection
18	Computer Engineering	B.E. 8th Sem	2019-20	Atul Bagde	Data Analysis with Clustered Based Using Hadoop
				Nikita Khodankar	
				Pranjal Yedame	
				Dipmala Likhare	
19	Computer Science & Engineering	M.tech 4th Sem	2019-20	Nitu Bisen	A Innovative Techniques to Minimize Salt Pepper Noise Using A Fuzzy Set for Gray Level Imaging
20	Computer Science & Engineering	M.tech 4th Sem	2019-20	Parul Bahekar	Power Curve Analytics for Wind Turbine
21	Computer Engineering	B.E. 8th Sem	2020-2021	Sweetie Ambilduke	Smart GSM Based Home Automation System
				Ruprani Gaikwad	
22	Computer Engineering	B.E. 8th Sem	2020-21	Himanshu Dheodankar	Online Voting System
23	Computer Science & Engineering	M.tech 4th Sem	2020-21	Swaminathan Sridhanta Institute Security to multi clouds: Security System	

24	Computer Engineering	B.E. 8th Sem	2021-22	Himanshu Bachle	ANDROID BASED AUTOMATION SYSTEM FOR THE NEXT GENERATION OF TECHNOLOGY USING WI-FI
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Department of Electronics and Telecommunication Engineering



Project Details of Students of ETC Department

Sr. No.	Name of Students	Project Name	Guided By	Year	BE/M.Tech
1	Saurav Suman	Automated Visual Inspection of RailRoad Track	Prof. Pooja Thakre	2017-18 VLSI	M.Tech
2	Swapnil Dharne	Forgery Image Analysis based on Illumination Process of Human Visual System	Prof. Pooja Thakre	2017-18 VLSI	M.Tech
3	Richa kachrual sharma	Reconfigurable Pipeline Cordic Architecture for Rectangular to Polar Conversion	Prof. Pooja Thakre	2017-18 EC	M.Tech
4	Mohd. Zubairuddin mohd zameeruddin	Automatic Meter Reading Using Wireless Sensor Module	Prof. Pooja Thakre	2017-18 EC	M.Tech
5	Megha S. Meshram	VoIP without Sim Calling System Using Rspberry Pi for Small Business Organization	Prof. Pooja Thakre	2017-18VLSI	M.Tech
6	Nitin Pathak	IOT Based Humidity and Air Quality Measurement Using Raspberry PI	Prof. Pooja Thakre	2018-19 EC	M.Tech



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7	Ashish pralahad katore Deepti Banra Shrikant Mundle Payal Tayde	Detection of Object using Image Processing	Prof. Pooja Thakre	2018-19 ETC	BE
8	Apurva S. Dhanorkar Punam D. Dhabarde Pawan P. Madavi	Smart Dustbin USING GSM Technology	Miss Priyanka Dhote	2018-19 EN	BE
9	Deepali R. Nikalje	Blind Stick Using Arduino	Prof. Pooja Thakre	2019-20 ETC	BE
10	Mahesh Jagannath Bhoyar	Blockchain and Cryptocurrency	Prof. Pooja Thakre	2019-20 ETC	BE
11	Nishigandha Bendekar Ruchita Pise Dharmendra Meshram	Solar Powered Automatic Water Quality Monitoring System for Rural Areas	Prof. Pooja Thakre	2020-21 ETC	BE
12	Praveen Kanere	Automated Mechanism to Start and PUT OFF TUBE WELLS	Prof. Pooja Thakre	2020-21 EN	BE
13	Mosami Tonge Shweta Rokde Sneha Langde	Enervation Detection & Alert System for Four Wheeler Driver	Prof. Pooja Thakre	2021-22 ETC	BE
14	Prasad Dongre Komal Meshram Shubham Pandhram Shubham Tandulkar	Android Controlled Fire Fighter Robot	Prof. Pooja Thakre	2021-22 ETC	BE
15	Sachin Bhore	Wireless Toll-Tax Collection System Using Zigbee	Prof. D. Deshpande	2021-22 ETC	BE

Project In-Charge

yogant

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S.D.
HEAD

Dept of Electronics & Telecommunication Engg,
Swaminarayan Siddhanta Institute of Technology, Kalmeshwar, Nagpur



THE POLICY TO IDENTIFY FAST AND SLOW LEARNERS

The institution assesses the learning levels of the students, after admission and organizes special programs for advanced learners and slow learners. Institute had a well-defined policy for different category of students. Based on learning skills and ability some students need special attention and some needs guidance. Some requires less time and repetition while some requires more to understand the subject. Depending upon the learning speed the students are identified under two categories namely Fast Learner and Slow Learner.

The faculty has to adopt such a teaching methodology which is suitable for both the categories of students.

The learning speed of Fast learners is more than the others and they require less time while the Slow learners are those who requires more time, special attention and continuous monitoring.

Identification of slow learner and advance learner is done by every subject teacher of all semester.

Identification of slow learner and advance learner is done immediately after second sessional examination.

Based on the result analysis of Sessional-I the students are categorized. Sessional-I is conducted on

syllabus covered till date of commencement of examination. The average of sessional-I is calculated

subject wise. If the average marks of sessional-I and is less than 50% of any particular subject of particular

student then that student is in slow learner category. If average is more than 50% then student is in fast

learner category of respective particular subject.

Activities for slow learners:

One or more of the following options shall be used;

1. Conducting extra lectures and remedial Classes.
2. Extra Assignments and solving University question papers.
3. Provisions of extra 45 minutes every day is made for conducting problem solving sessions/ revision sessions/extra sessions.
4. Mentoring/counselling of students with parents.
5. Be humble and patient with slow learners.
6. Encourage parent-teacher association of such students.
7. Motivating slow learners.
8. Pairing them with brighter students in group activities.
9. Showing some educational videos and online lectures.
10. Soft skill training




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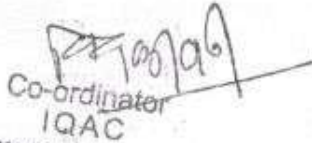
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Activities for Fast/Advanced Learners:

One or more of the following options shall be used;

1. Encouraging them to work with slow learners in practical hours.
2. Providing placement training.
3. Arranging Quiz competitions.
4. Promoting students to take part at various places viz. Inter College / University/State level /National Level competitions.
5. Insisting to complete NPTEL courses.
6. Soft skill training.
7. Providing support for preparing exams like GATE/GRE/TOFFEL.
8. Providing support for preparing competitive examination at state and national level.
9. Motivating them to participate in various technical events, online courses and value-added course.
10. Involving them to do online certification program.


Co-ordinator
IQAC

Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur
IQAC Coordinator

- Copy to- 1) Deans and HODs (CS/ETC/ME/CE/FY/TP)
2) Administrative office
3) Circulation among Teaching and Non-teaching staff
4) All Notice Board
5) Principal office file
6) IQAC file


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Department of Civil Engineering



Date: 04/03/2022

NOTICE

All Civil Engineering students are here by informed that, department has arranged extra classes for students who got less than 50% marks in their sessional-I exam. Extra classes scheduled from 07/03/2022. List of students and time table for extra classes will be displayed on the notice board on 04/03/2022.

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Department of Civil Engineering



SLOW LEARNER TIMETABLE SCHEDULE
B.E. 4th, 6th, 8th Semester Civil Engineering Summer 2022
(with effective from 07/03/2022)

DAY	SEM	SUBJECT	Time
MONDAY	4th SEM CIVIL	SA-I	4.15-5.00pm
	6th SEM CIVIL	SS	4.15-5.00pm
	8th SEM CIVIL	IRRIGATION	4.15-5.00pm
TUESDAY	4th SEM CIVIL	CT	4.15-5.00pm
	6th SEM CIVIL	SURVEYING-II	4.15-5.00pm
	8th SEM CIVIL	ELECTIVE-II	4.15-5.00pm
WEDNESDAY	4th SEM CIVIL	TRE-I	4.15-5.00pm
	6th SEM CIVIL	FM-II	4.15-5.00pm
	8th SEM CIVIL	IRRIGATION	4.15-5.00pm
THURSDAY	4th SEM CIVIL	SURVEYING-I	4.15-5.00pm
	6th SEM CIVIL	EE-II	4.15-5.00pm
	8th SEM CIVIL	CEF	4.15-5.00pm
FRIDAY	4th SEM CIVIL	EE-I	4.15-5.00pm
	6th SEM CIVIL	SS	4.15-5.00pm
	8th SEM CIVIL	ELECTIVE-III	4.15-5.00pm
SATURDAY (2nd, 4th)	4th SEM CIVIL	SA-I	10.00-12.00pm
	4th SEM CIVIL	CT	1.00-2.00pm
	4th SEM CIVIL	TRE-I	10.00-12.00pm
	6th SEM CIVIL	SS	1.00-2.00pm
	8th SEM CIVIL	ELECTIVE-II	10.00-12.00pm
	8th SEM CIVIL	ELECTIVE-III	1.00-2.00pm



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SLOW LEARNER LIST

SUMMER-2022

4th Semester

Sr. No.	Name of the students	Less than 50% marks Subjects
1	ROHIT LALJI YADAV	SA-I
2	KIRTIKUMAR RAMANLAL RANE	CT
3	VISHAKHA SANJAY GOHANE	TRE-I
4	ABHAY SURESH PATLE	TRE-I, EE-I
5	SAHIL RAMESH SONTAKKE	TRE-I, SV-I
6	TRUPTI BHAVRAO THAKRE	SV-I
7	GANESH ASHOK MESHRAM	SV-I
8	UMER FAIZI HUSAIN KHAN	SV-I
9	JAYSHRI VILAS PARWATE	EE-I
10	AHFAZ FAIYAZ KHAN	EE-I
11	MD SAAD MD RIYAZ	EE-I

6th Semester

Sr. No.	Name of the students	Less than 50% marks Subjects
1	HARSHALATA BHAGWAT PUSTODE	SS, SV-II, EE-II
2	SAHIL NARENDRA LADSE	SS
3	SANTOSH OMPRAKASH PAL	SS
4	IMRAN IRSHAD KHAN	SV-II
5	PRAVIN SHATRUGAN KHAJURIYA	SV-II
6	QAUZI TALHA ALI KHAN QUAZI ASIF ALI	SV-II
7	SAGAR SHANKAR PUPPALWAR	SV-II, FM-II, EE-II
8	SHEKH SAQIB AHAMAD ABDUL	SV-II, FM-II
9	SHUBHAM BHUSHAN BELKODE	SV-II
10	VAISHNAVI DILIPRAO DAHAKE	FM-II, EE-II
11	BABLU NILKANTH GORADWAR	FM-II
12	PRAMOD WASUDEO WADIBHASME	FM-II
13	PREMSINGH BHERSING MACHHIRKE	FM-II
14	ROHIT UMESH THAKARE	FM-II
15	SACHIN CHANGDEO ZADE	FM-II
16	SACHIN LOKCHAND KATRE	FM-II, EE-II
17	VIVEK CHINTAMAN WAGHADE	FM-II
18	AMIN TAIMUR SHEIKH	EE-II
19	M ABRAR M YUSUF DOSANI	EE-II
20	NIKHIL NAMDEO KUTHE	EE-II
21	SHEKH SAQIB AHAMAD ABDUL	EE-II
22	SHUBHAM ANIL CHAUDHARI	EE-II

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8th Semester		
Sr. No.	Name of the students	Less than 50% marks Subjects
1	SHUBHANGI DEVKUMAR SAKHARE	IE
2	ANKIT CHANDRAKANT KHADSE	IE, CEF
3	SHAHARUKALLI UMMDAALLI SAIYYAD	IE
4	VISHAL SHIVRAM GHARAT	E-II, E-III
5	SHUBHANM BHALCHANDRA KELZARKAR	CEF

[Signature]

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Department of Civil Engineering



Extra Classes Attendance Details

Semester: 4th

Month - March 2022

Subject: concrete Technology

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			8/3	12/3	15/3	19/3	22/3	26/3	29/3														
1		Kirtikumar Ramanlal Rane	P	P	A	P		P	P														05
2																							
3																							
4																							
5																							
6																							
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14																							
15																							

Pharhade
 Subject Incharge



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Pharhade
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Department of Civil Engineering



Extra Classes Attendance Details

Semester: 4th

Month - March 2022

Subject: Surveying and Geomatics

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			10/3	17/3	24/3	31/3																	
1		Sahil Ramesh Sontakke	P	A	P	P																	3
2		Truph Bhavrao Thakre	P	P	P	A																	3
3		Ganesh Ashok Meshram	A	P	P	P																	3
4		Umer Faizi Husain Khan	P	P	A	P																	3
5																							
6																							
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15																							

Ranade
 Subject Incharge



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Department of Civil Engineering



Extra Classes Attendance Details

Semester: 4th

Month - March 2022

Subject: Structural Analysis

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			7/3	12/3	14/3	19/3	21/3	26/3	28/3														
1		Rohit Lalji Yadav	P	P	A	P	P	P	A														5
2																							
3																							
4																							
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15																							

Subject Incharge

Ankush Bansod



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Extra Classes Attendance Details

Semester: 4th sem

Month - March (2022)

Subject: EE-I (Environmental Engg-I)

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			11/3	18/3	25/3	1/4																	
1		Jayshaj Vilas Parwate	P		P	P																	3
2		Abfaz Khan	P		P	P																	3
3		MD. Saad Riyaz	P		P	P																	3
4																							
5																							
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14																							
15																							

pm
 Subject Incharge
 Pranjali Madankar



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Extra Classes Attendance Details

Semester: VIth

Month - March 2022

Subject: Environmental Engineering - II

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			10/3	17/3	24/3	31/3																	
1		Harshad Pustode	P	P	P	P																	4
2		Sagar Puppawar	P	P	P	P																	4
3		Sheikh Sagib	P	P	P	P																	4
4		Vaishnavi Dahake	P	P	P	P																	4
5		Sachin Katge	P	P	P	P																	4
6		Amin Sheikh	P	P	P	P																	4
7		M. Abbas	P	P	P	P																	4
8		Nikhil Kuthe	P	P	P	P																	4
9		Shubham Chaudhary	A	P	P	A																	2
10																							
11																							
12																							
13																							
14																							
15																							

Amol Naikam
 Subject Incharge
 Amol Naikam



Dr. Jyoti
 Principal
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Dr. Jyoti
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 Department of Civil Engineering



Extra Classes Attendance Details

Semester: VIth

Month - March. 2022

Subject: Steel Structure

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			7/3	11/3	12/3	14/3	18/3	21/3	25/3	26/3													
1		Hemshalata Pustode	P	P	P	P	P	P															5
2		Sahil Ladse	P	P	A	P		A															3
3		Santosh Pat	P	P	P	P		P															5
4																							
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14																							
15																							

Subject Incharge

Girish Kowale.



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 Department of Civil Engineering



Extra Classes Attendance Details

Semester: SIXTH SEM

Month - March 2022

Subject: SV-II

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			1/3	5/3	15/3	22/3	29/3																
1		Harshlata Bhagwat Pustode	P	P	P	P	P																5
2		Imran Jeshad Khan	P	P	P	P	P																4
3		Pravin Shalegan Khajuriya	P	P	P	P	P																4
4		Quazi Talha Ali Khan Quazi Asif Ali	P	P	P	P	P																3
5		Sagar Shankar Puppulwar	P	P	P	P	P																4
6		Sheikh Saqib Ahmad Abdul	P	P	P	P	P																4
7		Shubham Bhukan Belkade	P	P	P	P	P																
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Gakush
 Subject Incharge
 AKASH GUPTA



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 Principal
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Shubham
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Extra Classes Attendance Details

Semester: SIXTH SEM

Month - March - 2022

Subject: FM - II

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			2/3	9/3	16/3	23/3	30/3																
1	1	SAGAR BHANKAR PUTPALWAR	P	P	P	P	*																4
2	2	SHEKH SAIB AHMAD ABDUL	*	*	P	*	P																2
3	3	VAISHNAVI DILIPRAO DAHAK	P	P	P	P	P																5
4		BABLU NILKANTH GORADWAR	P	P	P	P	P																5
5		PRAMOD WASUDEO WADEBHASME	P	P	*	P	*																3
6		PREMSINGH BHERYNAH MACHHARE	P	P	P	*	P																3
7		ROHIT UMESH TNAKARE	P	P	P	P	*																4
8		SACHIN CHANDRASEO ZADE	P	P	P	*	P																4
9		SACHIN LOKCHAND KATRE	P	P	P	P	P																5
10		VIVEK CHINTAMAN WAGHADE	P	P	P	P	P																5
11																							
12																							
13																							
14																							
15																							

Gakush
 Subject Incharge
 AKASH GUPTA



Sr.
 Principal
 Swaminarayan Siddhant Institute
 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

Om
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 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
 Department of Civil Engineering



Extra Classes Attendance Details

Semester: VIIIth

Month - March 2022

Subject: Water & waste water Treatment

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			11/3	12/3	13/3	14/3	25/3	26/3															
1		Nishal Ghanat.	P	P		P	P	P															5
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Amol
 Subject Incharge
 Amol Navtam



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Extra Classes Attendance Details

Semester: 8th

Month - March 2022

Subject: CEF

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
1		Aniket Khadse	P	P	P	P	P	P	P														07
2		Shubham Kelzakar	A	P	P	P	P	A	P														05
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Jayant
 Subject Incharge
 (Jayant Ramteke)



[Signature]
 Principal
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 Dist. Nagpur-441501

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Department of Civil Engineering



Extra Classes Attendance Details

Semester: 8th

Month - March 2022

Subject: Pavement Analysis & Design (EIV-II)

Sr. No.	Roll No.	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total Classes Attended
			8/3	12/3	15/3	19/3	22/3	26/3	29/3														
1		vishay shirram Gharat	P	P	P	P		A	P														5
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

A
Subject Incharge
Pratik Patil



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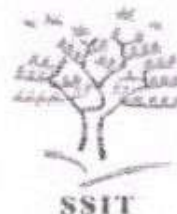
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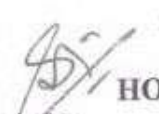


NOTICE

Date: 15/9/21

All the Students are hereby informed that Remedial Classes are arranged for Students who scored less than 50% marks in their sessional 1 examination. Remedial Classes are Scheduled from date 16/9/21. List of Students and Timetable for remedial classes for session 2021-22 are displayed on the notice board.

- Copy to-
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 - 3) IQAC Co-ordinator
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 - 5) For Circulation among students
 - 6) Notice Board of ETC Department


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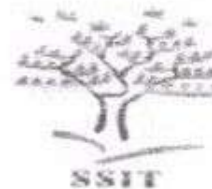
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Date: 15/09/21

SLOW LEARNER TIMETABLE SCHEDULE

B.E. 5th ,7th Semester ETC Winter 2021

(with effective from 16/09/2021)

DAY	SEM	SUBJECT	Time
MONDAY	7th SEM ETC	DSP&A	4-15-5pm
	5th SEM ETC	AWP	4-15-5pm
TUESDAY	7th SEM ETC	DSP&A	4-15-5pm
	5th SEM ETC	ACD	4-15-5pm
WEDNESDAY	7th SEM ETC	DSP&A	4-15-5pm
	5th SEM ETC	AWP	4-15-5pm
THURSDAY	7th SEM ETC	DSP&A	4-15-5pm
	5th SEM ETC	ACD	4-15-5pm
SATURDAY (2,4)	7th SEM ETC	DSP&A	1pm-4pm
	5th SEM ETC	ACD	11-1pm
	5th SEM ETC	AWP	1pm-4pm

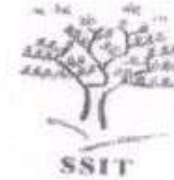

Timetable In-Charge


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Remedial Classes Attendance Details

Semester : 5th Sem

Subject: Antenna and Wave Propagation

**Session 2021-22
 Month: September**

Sr No.	Name	18/9/21	20/9/21	22/9/21	25/9/21	27/9/21	29/9/21	2/10/21	4/10/21	6/10/21	9/10/21	Total Classes Attended
1	Shital Maraskolhe	P	P	P	P	P	P	P	P	P	P	10
2												
3												
4												
5												
6												
7												
	Topic Covered	Transmission Line Equation	Transmission Line Parameters	Characteristic Impedance	Propagation constant attenuation constant	distortionless lines	Transmission Line at radio freq.	Intrinsic impedance in radiation field	radiation resistance radiation sphere	Near field, far field directivity, small loop	principle of antenna ground effect	

Subject In-Charge



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Remedial Classes Attendance Details

Semester : 5th Sem

Session 2021-22

Subject: Analog Circuit and Design

Month: September

Sr No.	Name	16/9/21	18/9/21	21/9/21	23/9/21	25/9/21	28/9/21	30/9/21	2/10/21	5/10/21	7/10/21	9/10/21	Total Classes Attended
1	Shital Maraskolhe	P	P	P	P	P	P	P	P	P	P	P	11
2													
3													
4													
5													
6													
7													
	Topic Covered	Block Dia of op-amp	Differential Amplifier using 741 op-amp	Characteristics & Regulation	Ideal op-amp equivalent circuit	Voltage transfer curve	Inverting & non inverting Amplifier	Voltage followers	Summing Amplifier	Scaling & averaging amplifier	Instrumentation amplifier & 741 op-amp	Integrator & differentiator	Peak detector, log & Antilog Amp. using op-amp

Subject In-Charge



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Remedial Classes Attendance Details

Semester : 7th Sem

Subject: DSP Processor and Architecture

Session 2021-22

Month: September

Sr No.	Name	16/9/21	18/9/21	20/9/21	21/9/21	22/9/21	23/9/21	27/9/21	29/9/21	4/10/21	5/10/21	7/10/21	Total Classes Attended
1	Mosami Tonge	P	P	P	P	P	P	P	P	P	P	P	11
2	Sachin Bhore												
3	Shubham Tandulkar												
4													
5													
6													
7													
	Topic Covered	Multiplier and Multiplier accumulator Multiported memory VLSI architecture Pipelining special Addressing P-DSPs and peripheral computational accuracy in DSP Architecture of TMS320C5X Assembly language Simple ALP-pipelined structure Operation Block Diagram of DSP Application program Processing a real time signal.											

Subject In-Charge



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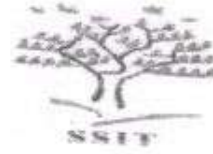
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Date: 15/09/21

SLOW LEARNER LIST

B.E. 7th Semester ETC Winter 2021

Subject: DSP Processor and Architecture

SR. No.	Roll No.	Name of the students	Sessional I
			(out of 20)
1	1	Mosami Tonge	9
2	6	Sachin Bhore	9
3	8	Shubham Tandulkar	9


Subject In-Charge

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Date: 15/09/21

SLOW LEARNER LIST
R.E. 5th Semester ETC Winter 2021
Subject: Antenna and Wave Propagation

Sr. No.	Roll No.	Name of the students	Sessional 1
			(out of 20)
1	2	Shital Maraskolhe	9


Subject In-Charge


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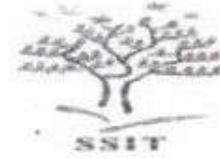
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Date: 15/09/21

SLOW LEARNER LIST
B.E. 5th Semester ETC Winter 2021
Subject: Analog Circuit and Design

Sr. No.	Roll No.	Name of the students	Sessional 1
			(out of 20)
1	2	Shital Maraskolhe	9


Subject In-Charge


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Date: 15/09/21

B.E. 7th Semester ETC Winter 2021

Sessional 1 Marks

SR. No.	Roll No.	Name of the students	OC	DSPA	TVE	ADSD	DC&E
			Out of 20	Out of 20	Out of 20	Out of 20	Out of 20
1	1	Mosami Ramesh Rao Tonge	12	9	12	12	12
2	2	Sneha Suresh Langde	15	12	12	12	12
3	3	Sweta Murlidhar Rokde	12	13	14	14	14
4	4	Komal Baba Meshram	13	14	16	13	16
5	5	Prasad Anil Dongre	14	15	13	13	15
6	6	Sachin Pandurang Bhore	12	9	12	12	13
7	7	Shubham Deepak Pandhram	14	16	16	15	12
8	8	Shubham Vijay Rao Tandulkar	13	9	14	16	13

yogkaut
Class In-Charge

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Department of Electronics and Telecommunication Engineering



Date: 15/9/21

B.E. 5th Semester ETC Winter 2021
Sessional 1 Marks

SR. No.	Roll No.	Name of the students	AWP	MNM	ACD	CE	IEED
			Out of 20	Out of 20	Out of 20	Out of 20	Out of 20
1	1	Siddhi Pandey	12	15	16	15	15
2	2	Shital Maraskolhe	9	16	9	14	14


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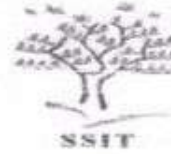
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Department of Electronics and Telecommunication Engineering



Date:12/01/22

B.E. 3rd Semester ETC Winter 2021

Sessional 1 Marks

SR. No.	Roll No.	Name of the students	M-III	CECD	DSD	NT	S&S	M&I
			Out of 20	Out of 20	Out of 20	Out of 20	Out of 20	Out of 20
1	1	Achal Nilkantha Hajare	18	18	18	18	18	18
2	2	Ankit Sadanand Kushwaha	16	16	20	16	16	18
3	3	Apeksha Sanjay Nandurkar	18	18	18	20	18	18
4	4	Ashwajit Dadarao Naranje	20	18	20	16	18	18
5	5	Chanchal Komal Navghare	18	20	18	20	18	18
6	6	Deepak Chaitram Bawankule	20	20	20	18	18	16
7	7	Harshal Gajendra Kahdase	16	18	16	18	16	16
8	8	Mangesh Prabhakar Rao Shrirao	16	18	18	16	16	16
9	9	Mayuri Kawduji Maraskolhe	18	18	18	20	18	16
10	10	Mohd Moin Imran Ahmed	20	16	18	16	16	18
11	11	Nandini K Rao	16	18	16	18	18	16
12	12	Nitesh Dewaji Kambale	20	16	16	18	16	18
13	13	Payal Narottam Meshram	20	18	16	16	18	18
14	14	Sai Shridhar Bachhav	18	18	18	20	18	18
15	15	Shantanu Haribhau Talmale	20	16	20	16	16	18
16	16	Shashank Jawahar Gajbhiye	16	18	16	20	18	16
17	17	Suraj Rajesh Tayade	18	18	20	18	18	16
18	18	Tarafdar Kundan Kingkar	16	18	18	20	16	18
19	19	Vaishnavi Sudhakar Sakinala	18	18	18	18	18	18
20	20	Yash Sanjay Dhabekar	18	18	18	20	18	16


Class In-Charge

No one below 50% in session I


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Department of Electronics and Telecommunication Engineering



NOTICE

Date: 01/03/22

All the Students are hereby informed that Remedial Classes are arranged for Students who scored less than 50% marks in their sessional 1 examination. Remedial Classes are Scheduled from date 02/03/22. List of Students and Timetable for remedial classes for session 2021-22 are displayed on the notice board.

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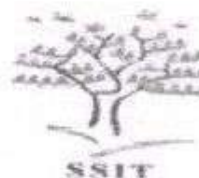
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Date: 01/03/22

SLOW LEARNER TIMETABLE SCHEDULE

B.E. 6th ,8th Semester ETC Summer 2022

(with effective from 02/03/2022)

DAY	SEM	SUBJECT	Time
MONDAY	6th SEM ETC	TSS	4-15-5pm
	8th SEM ETC	M&RE	4-15-5pm
TUESDAY	6th SEM ETC	CSE	4-15-5pm
	8th SEM ETC	M&RE	4-15-5pm
WEDNESDAY	6th SEM ETC	TSS	4-15-5pm
	8th SEM ETC	CCN	4-15-5pm
THURSDAY	6th SEM ETC	CSE	4-15-5pm
	8th SEM ETC	CCN	4-15-5pm
FRIDAY	6th SEM ETC	TSS	4-15-5pm
	8th SEM ETC	M&RE	4-15-5pm
SATURDAY	6th SEM ETC	CSE	01-4 pm
	8th SEM ETC	CCN	01-4pm


Timetable In-Charge


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Remedial Classes Attendance Details

Semester : 8TH Sem

Subject: Microwave and Radar Engineering

Session 2021-22

Month: March

Sr No.	Name	4/3/22	7/3/22	8/3/22	11/3/22	14/3/22	15/3/22											Total Classes Attended
1	Sweta Rokde	P	P	P	P	P	P											6
2	Shubham Tandulkar	P	P	P	P	P	P											6
3																		
4																		
5																		
6																		
7																		
8																		
	Topic Covered	Klystrons	Reflex Klystron	waveguide parameters	smatrix tees	directional couplers	slofted line	resistive devices										

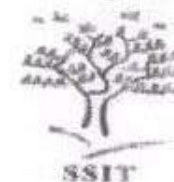
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 of Technology, Kalmeshwar,
 Dist. Nagpur-441501

HEAD
 Dept. of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
 of Technology, Kalmeshwar, Nagpur.

Sarvasiddhanta Education Society's
Swaminarayan Siddhanta Institute of Technology
 Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University
 Nagpur-Katol Highway Road, Khapri (Kothe),
 Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Electronics and Telecommunication Engineering



Remedial Classes Attendance Details

Semester : 8th Sem

Subject: Computer Communication Network

Session 2021-22

Month: March

Sr No.	Name	4/3/22	5/3/22	7/3/22	11/3/22	12/3/22	14/3/22	18/3/22	19/3/22	20/3/22	Total Classes Attended
1	Mosami Tonge	P	P	P	P	P	P	P	P	P	9
2	Sachin Bhore	P	P	P	P	P	P	P	P	P	9
3	Shubham Tandulkar	P	P	P	P	P	P	P	P	P	9
4											
5											
6											
7											
8											
	Topic Covered	Computer Network	TCP/IP model OSI	Network X.25	Frame Relay ATM	Physical Layer	Circuit + Packet Switching	DSL technology	SONET	Data Link Layer	

Subject In-Charge



Principal
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HOD

Head of Electronics & Telecommunication Engg.
 Swaminarayan Siddhanta Institute
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Department of Electronics and Telecommunication Engineering



SSIT

Remedial Classes Attendance Details

Semester : 6th Sem

Session 2021-22

Subject: Telecommunication Switching System

Month: March

Sr No.	Name	2/3/22	4/3/22	7/3/22	9/3/22	11/3/22	14/3/22	16/3/22	18/3/22							Total Classes Attended
1	Shital Maraskolhe	P	P	P	P	P	P	P								7
2																
3																
4																
5																
6																
7																
8																
	Topic Covered	Switching system	Packet exchange junction	Automatic telephony	Space division switching	Trunking loss	Queueing system	Trunking characteristic								

Subject in-Charge



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Department of Electronics and Telecommunication Engineering



Remedial Classes Attendance Details

Semester : 6th Sem

Subject: Control System Engineering

Session 2021-22

Month: March

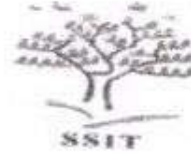
Sr No.	Name	3/3/22	5/3/22	8/3/22	10/3/22	12/3/22	15/3/22	17/3/22	19/3/22	Total Classes Attended
1	Shital Maraskolhe	P	P	P	P	P	P	P	P	8
2										
3										
4										
5										
6										
7										
8										
	Topic Covered	Modeling of control system	Transfer Function Block Diagram	Signal flow graph	Block reduction	Time domain Analysis	2nd order system	Steady state error	PID Controller	



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Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Electronics and Telecommunication Engineering



Date: 01/03/22

SLOW LEARNER LIST
B.E. 8th Semester ETC Summer 2022
Subject: Computer Communication Network

Sr. No.	Roll No.	Name of the students	Sessional I
			(out of 20)
1	1	Mosami Tonge	9
2	6	Sachin Bhore	9
3	8	Shubham Tandulkar	9

Subject In-Charge

HOD
HEAD

- Copy to-
- 1) Principal Office
 - 2) Dean Academics
 - 3) IQAC Co-ordinator
 - 4) Concerned Faculties
 - 5) Notice Board of ETC Department

Dept. of Electronics & Telecommunication
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.



Principal
Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501

Sarvasiddhanta Education Society's

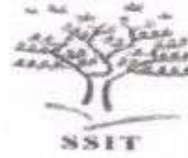
Swaminarayan Siddhanta Institute of Technology

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Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Electronics and Telecommunication Engineering

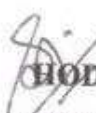


Date: 01/03/22

SLOW LEARNER LIST
B.E. 8th Semester ETC Summer 2022
Subject: Microwave and RADAR Engineering

Sr. No.	Roll No.	Name of the students	Sessional 1
			(out of 20)
1	3	Sweta Rokde	9
2	8	Shubham Tandulkar	8


Subject In-Charge


HOD
HEAD

- Copy to-
- 1) Principal Office
 - 2) Dean Academics
 - 3) IQAC Co-ordinator
 - 4) Concerned Faculties
 - 5) Notice Board of ETC Department

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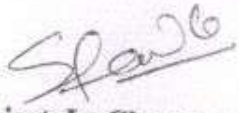
Department of Electronics and Telecommunication Engineering



Date: 01/03/22

SLOW LEARNER LIST
B.E. 6th Semester ETC Summer 2022
Subject: Control System Engg.

Sr. No.	Roll No.	Name of the students	Sessional I
			(out of 20)
1	2	Shital Maraskolhe	9


Subject In-Charge


HOD
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Department of Electronics and Telecommunication Engineering



Date: 01/03/22

SLOW LEARNER LIST

B.E. 6th Semester ETC Summer 2022

Subject: Telecommunication Switching System

Sr. No.	Roll No.	Name of the students	Sessional 1
			(out of 20)
1	2	Shital Maraskolhe	9


Subject In-Charge


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Dept. of Electronics & Telecommunication
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- Copy to-
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 - 3) IQAC Co-ordinator
 - 4) Concerned Faculties
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Department of Electronics and Telecommunication Engineering



Date: 1/3/22

B.E. 8th Semester ETC Summer 2022

Sessional 1 Marks

SR. No.	Roll No.	Name of the students	WMC	MRE	CCN	ES	Sat Comm	Robotics
			Out of 20	Out of 20	Out of 20	Out of 20	Out of 20	Out of 20
1	1	Mosami Rameshrao Tonge	12	12	9	12	12	
2	2	Sneha Suresh Langde	12	15	12	12	12	
3	3	Sweta Murlidhar Rokde	14	9	13	14	14	
4	4	Komal Baba Meshram	16	13	14	13	16	
5	5	Prasad Anil Dongre	13	14	15	13	15	
6	6	Sachin Pandurang Bhore	12	12	9	12		13
7	7	Shubham Deepak Pandhram	16	14	16	15	12	
8	8	Shubham Vijayrao Tandulkar	14	8	9	16	13	

yograw
Class In-Charge

[Signature]
HOD

HEAD

Dept. of Electronics & Telecommunication
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- Copy 1) Principal Office
2) Dean Academics
3) IQAC Co-ordinator
4) Concerned Faculties
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[Signature]
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Tal: Kalmeshwar, Nagpur, Maharashtra-441501

Department of Electronics and Telecommunication Engineering



Date:1/3/22

B.E. 6th Semester ETC Summer 2022

Sessional 1 Marks

SR. No.	Roll No.	Name of the students	TSS	DSP	DC	CSE	FE
			Out of 20	Out of 20	Out of 20	Out of 20	Out of 10
1	1	Siddhi Pandey	12	15	15	16	15
2	2	Shital Maraskolhe	9	16	14	9	14

[Signature]
Class In-Charge

Copy to- 1)Principal Office
2) Dean Academics
3)IQAC Co-Ordinator
4) Concerned Faculties
5) Notice Board of ETC Department

[Signature]
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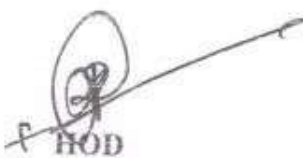
Tal: Kalmeshwar, Nagpur, Maharashtra-44150

Department of Civil Engineering



INDUSTRIAL VISIT SUMMERY

Sr. No.	Academic Year	Name of Industrial Visit	Place of Visit	Date of Visit	No. of Students Present
01	2021-22	Visit to Building Construction Site	New Katol Naka, Nagpur	22/03/2022	28
02	2021-22	Visit to Water Treatment Plant	Gumgaon Mine, Gumgaon, Distt: Nagpur	19/03/2022	57
03	2019-20	Visit to Fly ash Brick Manufacturing Plant	Kalmeshwar, Distt.: Nagpur	17/08/2019	82
04	2018-19	Visit to Cement Concrete Road Construction	Buttibori, Nagpur	01/09/2018	47
05	2017-18	Visit to RMC Plant	Bahadura, Nagpur	16/12/2017	78 -


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Dept. of Civil Engg.
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No.: SSIT/CE/VISIT/2021-2022/3

Date 12/03/2022

To
The Director,
Atharva Builder
NAGPUR

Subject – Industrial Visit to Construction Site.

Respected Sir

Warm Regards from Swaminarayan Siddhanta Institute of Technology, Nagpur. SSIT is one of the most promising and upcoming Engineering Institutions in Vidarbha region. The college is a part of Sarvasiddhanta Education Society which caters to cultivating students in the field of Engineering. It comes under the umbrella of Rashtrasant Tukadoji Maharaj Nagpur University and is affiliated to AICTE.

As a professional education institute involved in producing engineers, it is imperative for us that our students are industry relevant and ready. As such we feel the urge for high amount of student interaction with the industrial setup. Hence, we encourage our students to maximize their industry interaction in ways such as industrial visits and projects. This helps them to get practical experience of theoretical knowledge that they acquire in their curriculum.

Our students from the Department of Civil Engineering are eager to visit your esteemed organization as a part of their industrial visit. The students will be accompanied along with 2 Professors from the same department. I ensure you of a disciplined behavior from our students during the visit.

We are very grateful to you that if you give permission for industrial visit on 22th March 2022 as discussed telephonically.

Permitted for site visit.



[Signature]

HOD (Civil)

HEAD

Dept. of Civil Engg.

Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.

Principal

Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
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Nagpur-Katol Highway Road, Khapri (Kothe),

Tal: Kalmeshwar, Nagpur, Maharashtra-441501



No.: SSIT/CE/VISIT/2021-2022/3

Date 12/03/2022

To
The Director,
Atharva Builder
NAGPUR

Subject – Industrial Visit to Construction Site.

Respected Sir

Warm Regards from Swaminarayan Siddhanta Institute of Technology, Nagpur.

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We are very grateful to you that if you give permission for industrial visit on 22th March 2022 as discussed telephonically.



Principal
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HOD (Civil)

HEAD

Dept. of Civil Engg.

Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.



Date: 17/03/2022

Ref No.: SSIT/CIVIL/VISIT/2021-22/ 7

NOTICE

All the students of fourth semester Civil Engineering department are hereby informed that the industrial visit is organized on 22/03/2022 to visit **Building Construction Site** at Katol Naka, Nagpur. All the students should remain present in college at 10.00 am on 22/03/2022.

HOD

**CIVIL DEPT.
HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.**

Copy to:

1. Principal
2. Dean Academics
3. IQAC Co-ordinator
4. Concern Teaching Staff



Principal

**Swaminarayan Siddhanta Institute
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**SWAMINARAYAN SIDDHANTA INSTITUTE OF
TECHNOLOGY, KALMESHWAR, NAGPUR**

CIVIL ENGINEERING DEPARTMENT

Industrial Visit Report

Place of Visit:

**BUILDING CONSTRUCTION SITE,
NEW KATOL NAKA, NAGPUR**

DATE : 22/03/2022

DETAILS OF INDUSTRIAL VISIT:

Place of visit : Building Construction site at New Katol Naka, Nagpur.
Date of visit : 22/03/2022
Name of department : Civil Engineering Department
Semester : 4
Number of students : 28 students

OBJECTIVES:

1. The main objective of this visit is to understand the construction procedure of different components of building.
2. To learn and understand the precaution & safety at Construction project site

VISIT DISCRIPTION:

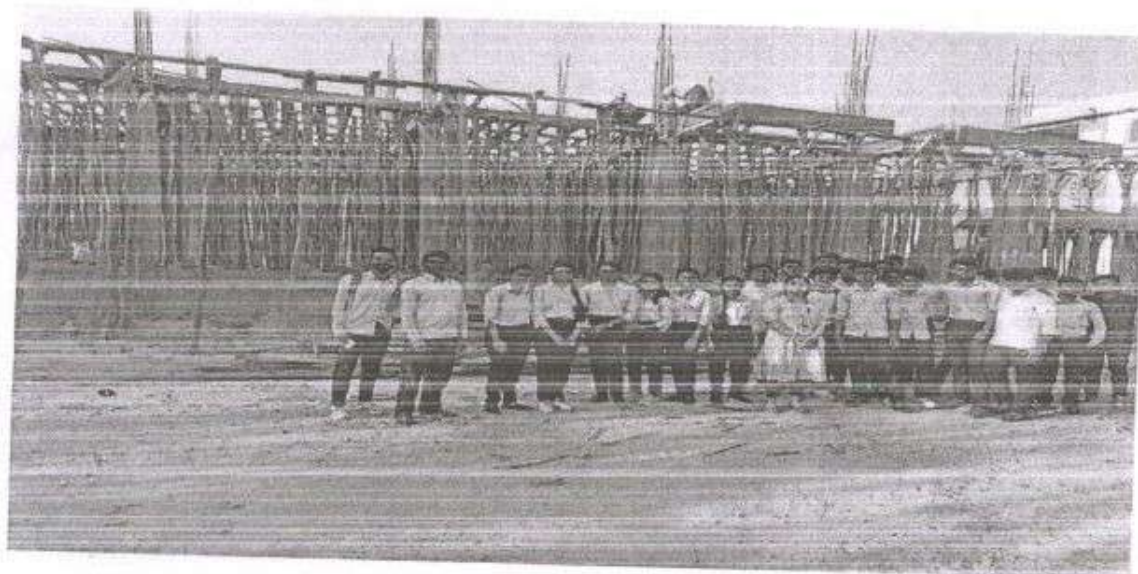
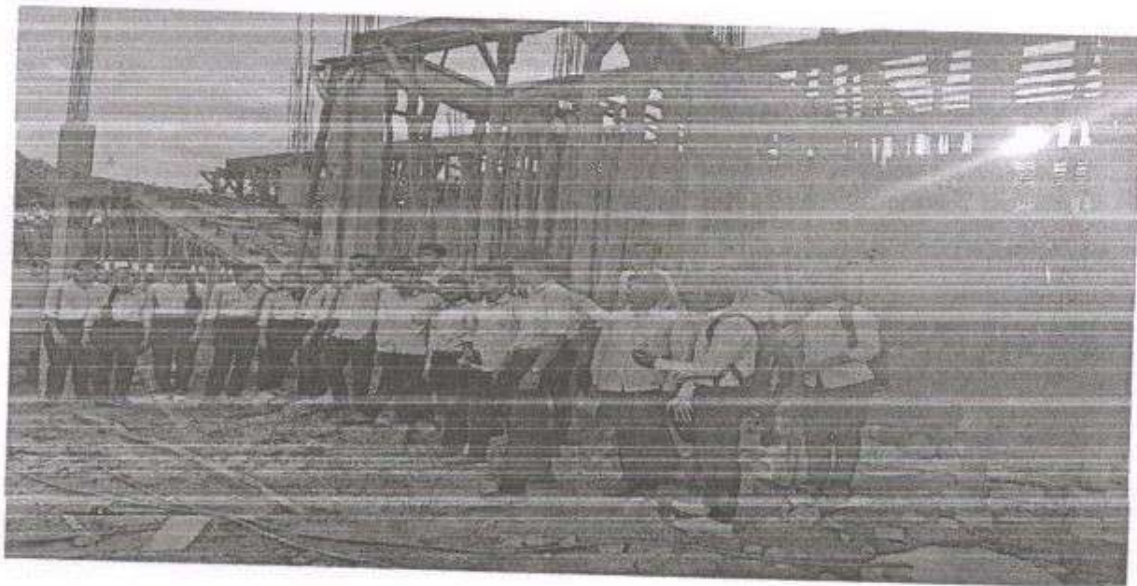
The Department of Civil Engineering organized an industrial visit to Building Construction Site at New Katol Naka, Nagpur on 22th March, 2022. This visit was organized for the students of semester – 04 of Civil Engineering Department. Total 28 students of Civil Engineering Department Were present at Visit place. Two faculty members - Prof. Pratik Patil and Prof. Girish Kawale were Join students at during Visit.

The students and faculty members were welcomed by Project Engineer of Construction site. He explains the Procedure of construction of various components of the building in detail. He also briefed about the safety measures as well as precautions to be followed during the Whole period of construction. He further gave a detailed explanation to the students about the different types of building material used in construction and tests carried out on the building material before its use in construction. Students were explained about various equipment such as Concrete Mixer, Earth Excavation/moving equipments, Bar bending Machine .He also explain the




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Different stages of construction. The visit proved to be very much useful for the student for their future field Practice and satisfied the objectives as mentioned earlier.



Rohade

Visit Coordinator: Prof. Pranjali Karade

AB

HOD Civil: Prof. Ankush Bansod

HEAD

Dept. of Civil Engg.

Swaminarayan Siddhanta Institute
of Technology, Kaimeshwar, Nagpur.

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Tal: Kalmeshwar, Nagpur, Maharastra-441501



No.: SSIT/CE/VISIT/2021-2022/ 1

Date 08/03/2022

To
The Chief Manager (Civil)
MOIL, Limited,
Gumgaon Mine, Ta. Saoner, Distt. Nagpur

Through:- Mine Manager, Gumgaon Mine

Subject –Industrial Visit to Water Treatment plant.

Respected Sir

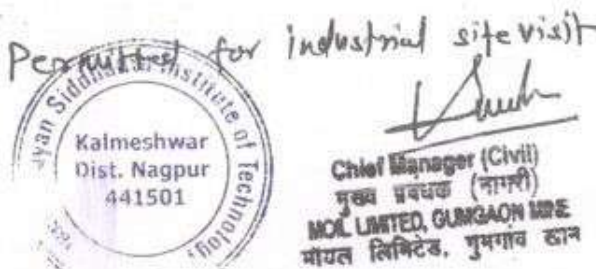
Warm Regards from Swaminarayan Siddhanta Institute of Technology, Nagpur.
SSIT is one of the most promising and upcoming Engineering Institutions in Vidarbha region. The college is a part of Sarvasiddhanta Education Society which caters to cultivating students in the field of Engineering. It comes under the umbrella of Rashtrasant Tukadoji Maharaj Nagpur University and is affiliated to AICTE.

As a professional education institute involved in producing engineers, it is imperative for us that our students are industry relevant and ready. As such we feel the urge for high amount of student interaction with the industrial setup. Hence, we encourage our students to maximize their industry interaction in ways such as industrial visits and projects. This helps them to get practical experience of theoretical knowledge that they acquire in their curriculum.

60 nos. of our students from the Department of Civil Engineering (B.E) are eager to visit your esteemed organization as a part of their industrial visit . The students will be accompanied along with 3 Professors from the same department. I ensure you of a disciplined behavior from our students during the visit.

We are very grateful to you that if you give permission for industrial visit on 19th March 2022 as discussed telephonically.

*Pl. do needful
chief mgmt(civil)
part 2*



Ab
HOD (Civil)
HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



Ref No.: SSIT/CIVIL/VISIT/2021-22/ 3

Date: 15/03/2022

NOTICE

All the students of Civil Engineering department are hereby informed that the industrial visit is organized on 19/03/2022 to visit **Water Treatment Plant** at Gumgaon Mine, Gumgaon, Ta. Saoner, Distt. Nagpur. All the students should remain present in college at 10.00 am on 19/03/2022.

CIVIL DEPT.
HEAD

Dept. of Civil Engg.
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of Technology, Kalmeshwar, Nagpur

Copy to:

1. Principal
2. Dean Academics
3. IQAC Co-ordinator
4. Concern Teaching Staff



Principal

Swaminarayan Siddhanta Institute
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Dist. Nagpur-441501

मॉयल लिमिटेड
(भारत सरकार का उपक्रम)
गुमगांव खान
पोस्ट: खापा, तहसिल: सावनेर,
जिल्हा: नागपूर (महाराष्ट्र)
दुरभाष कं. 07113-286123, निवास- 286133
पिन कोड : 441101
ई - मेल : gumgaon.moil@gmail.com
वेबसाइट : www.moil.nic.in



MOIL LIMITED
(A Govt. of India Enterprise)
GUMGAON MINE
Post: Khapa, Tah: Saoner, Distt-Nagpur (M.S.)
Telephone Off-07113-286123, Res.-286133
Pin Code-441101
E-Mail ID: gumgaon.moil@gmail.com
Website: www.moil.nic.in
CIN : L99999MH1962GOI012398
LIN No. 1152687818

An OHSAS 18001: 2007 Certified Organization
Regd. Off. MOIL Bhawan, 1A Katol Road, Nagpur-440013 Ph. No. 0712-2806182, Fax-0712-2591661

Ref. No. GUM/Civil/MM/VISIT/ 21-22/ 2951

Date: 20.03.2022

✓ To,

Head of Department (Civil)
Swaminarayan Siddhanta Institute of Technology
Nagpur-Katol Highway road, Khapri (Kothe)
Tal. Kalmeshwar, Nagpur

Subject : Industrial visit to Water treatment plant at MOIL Gumgaon Mine.

Reference : SSIT/CE/VISIT/2021-2022/1 Dt. 08.03.2022

Dear Sir,

On dated 19.03.2022, Students of your college visited the site of "Water treatment plant at Gumgaon Mine ". Our site is located on Kanhan River and WTP have daily capacity of 0.5 MLD. This water supply scheme runs for to provide drinking water to residential camp of MOIL Gumgaon Mine.

MOIL Gumgaon Mine is happy to done industrial visit from your side with 57 nos of students with 3 nos of professors. We always ready to arrange such type of visits for College students.

This is for your kind information.

Thanking you.

Yours Faithfully

Chief Manager (Civil)
Gumgaon Mine

Forwarded by

Mine Manager
Gumgaon Mine



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Nagpur-Katol Highway Road, Khapri (Kothe),
Tal: Kalmeshwar, Nagpur, Maharashtra-44150



"A visit to water treatment plant"

19th March 2022

Organized by:
Civil Engineering Department

Pshade

Prepared By:

Ms. Pranjali Karade

AD

Coordinator:

Prof. Akash Gupta

Prof. Ankush Bansod

(HOD)

HEAD

Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur.



Principal

Principal
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Dist. Nagpur-441501

GENERAL INFORMATION

MOIL Limited, Gumgaon mine, have set up a Water Treatment Plant at Gumgaon, Ta. Saoner, Distt. Nagpur. The company has set up a 1.50 MLD filtration plant to treat the water of Kanhan river. In river bed MOIL Gumgaon has constructed intake wells and jack wells for continuous supply of water. After this treated water is supplied to MOIL, Gumgaon Residential area by 2.5 km long pipeline. In these plant different types of treatment is done on raw water like pre-chlorination, post chlorination, slow sand filtration, etc.




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PURPOSE OF VISIT

Our main purpose for this visit was to give the practical knowledge about how raw water is treated and how water is distributed in different Area. By this visit students can be familiar with industrial environment and get knowledge of different units of water treatment plant. Also in 8th semester subject like Water and waste water Engineering requires knowledge about how components of filtration plant are constructed, so it is very much convenient to see all the practical and components in real time work environment.




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On 19th March, 2022 at 10.30 am students reached at water treatment plant, MOIL, Gumgaon mine.

At starting Mr. Vishal Meshram, Chief Manager (Civil) gave the basic knowledge about treatment process, they explain to students about that before arriving at your tap water is treated at the Water Treatment Plant to remove sediment, bacteria, and other impurities. He also explained the process from the first step,

Water Sources

Water from the Kanhan River flows through 250 mm diameter pipe to MOIL Water Treatment Plant.

Rapid Mixing

Once it arrives at the plant, the pH is adjusted and water is rapidly mixed with aluminum sulfate (alum), a coagulant that helps the impurities stick together to form bigger particles called floc.

Chlorine is also added to water for the pre-chlorination process in which bacteria is killed in water.



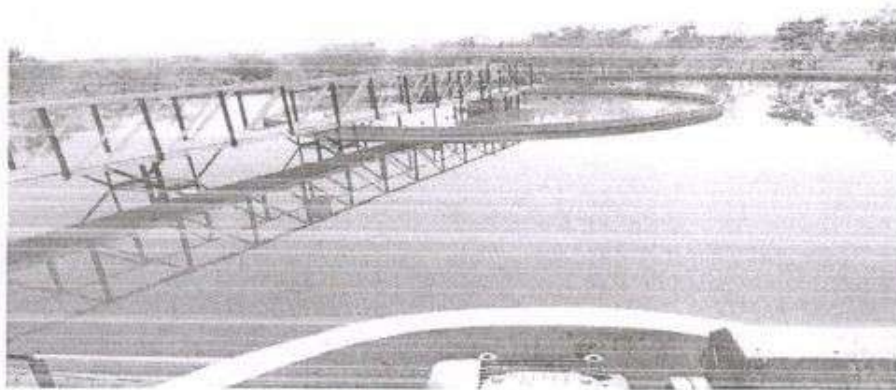
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Flocculation

After rapid mixing, the water flows into flocculation basins, where the flow of water is slowed and the floc has time to grow bigger.

Sedimentation

Next, the water flows into sedimentation basins, where the heavy floc particles sink to the bottom and are removed.



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Filtration

Now the water travels through large filters made of sand, gravel, and anthracite. Filtration removes any remaining microscopic particles and microorganisms.

Backwash water contains the solids removed from the filters, and contractors. The floc particles are separated out in settling tanks and clarifier.

The clean water from the clarifier is DE-chlorinated (removal of chlorine from water) using sodium bi sulphate before it is distributed to villages.

Disinfection

Finally, the water is disinfected to protect it against bacteria. Chlorine dioxide and a combination of chlorine and ammonia called chloramines used to disinfect the water.

Distribution

The clean water is then distributed by Gravity system into pipes that deliver it to 600Nos of MOIL Quarters.




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Tal: Kalmeshwar, Nagpur, Maharashtra-441501
Department of Civil Engineering.
Session 2021-22



Date: 28/01/2022

Notice

All the students are hereby informed that Civil Engineering Department is organizing a Departmental level "TECHNICAL QUIZ" on 04/02/2022. The interested students can contact **Ms. Pranjali Karhade** for participating in the event before 02/02/2022.

Pranjali Karhade
Event Incharge

Pranjali Karhade
HOD
HEAD
Dept. of Civil Engg.
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar, Nagpur



Pranjali Karhade
Principal
Swaminarayan Siddhanta Institute
of Technology, Kalmeshwar,
Dist. Nagpur-441501



Date: 03/02/2022

Technical Quiz

List of Participants

Sr. No.	Participants	Sem/Year
1	Rohit Yadav	4 th sem
2	Sayali Chimntrawar	4 th sem
3	Damini Mathure	4 th sem
4	Komal Ingle	6 th sem
5	Anjali Ukey	6 th sem
6	Mayuri Bawankar	6 th sem
7	Swapnil A. Gaikwad	6 th sem
8	Sonal Lanje	6 th sem
9	Navjeevan k. Chavhan	6 th sem
10	Mrunal Kelkar	8 th sem
11	Akshay Khokle	8 th sem
12	Harshali Umredkar	8 th sem

P. Heide
Event Incharge



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Department of Civil Engineering



TECHNICAL QUIZ

Q. 1) Weep holes are provided in retaining walls

- a) To drain off the water from the filling
- b) To ventilate the stone masonry
- c) To add architectural beauty
- d) To increase compaction of the earth retained

Q.2) Pitched and sloping roofs are suitable for

- a) Coastal regions
- b) Plain regions
- c) Covering large areas
- d) All of the above

Q.3) Dutch Bond Is a modification of

- a) English Bond
- b) Strecher Bond
- c) Header Bond
- d) Single flemish Bond



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Department of Civil Engineering

Session 2021-22



Date: 04/02/2022

Technical Quiz

List of Winners

Sr. No.	Participants	Sem/Year	Position
1	Swapnil A. Gaikwad	6 th sem	1 st (Winner)
2	Navjeevan K. Chavhan	6 th sem	2 nd (Runner up)

Phade

Event Incharge




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Q.4) In order to obtain the best workability of concrete the preferred shape of aggregate is

- a) Rounded
- b) Elongated
- c) Angular
- d) All of the above

Q.5) If the depth of actual neutral axis in a beam is more than the depth of critical neutral axis then the beam is called

- a) Balanced beam
- b) Under reinforced beam
- c) Over reinforced beam
- d) None of the above

Q.6) Minimum grade of concrete to be used in reinforced concrete as per IS:456-1978 is

- a) M15
- b) M20
- c) M10
- d) M25

Q.7) the slab is designed as one way if the ratio of long span to short span is

- a) Less than 1
- b) Between 1 and 1.5
- c) Between 1.5 and 2
- d) Greater than 2



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Q.8) According to IS:456-1978, minimum slenderness ratio for a short column is

- a) Less than 12
- b) Less than 18
- c) Between 18 and 24
- d) More than 24

Q.9) The fundamental Factor in the selection of Pavement type is

- a) climatic condition
- b) type and intensity of traffic
- c) subgrade soil and drainage conditions
- d) availbilty of funds for the construction project

Q.10) The stopping sight distance depends upon

- a) total reaction time of driver
- b) speed of vehicle
- c) efficiency of brakes
- d) all of the above

Q.11) Most suitable material for highway embankments is

- a) granular soil
- b) organic soil
- c) silts
- d) clays



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Q.12) Which of the following is considered to be the highest quality construction in the group of black top pavements?

- a) Mastic asphalt
- b) Sheet asphalt
- c) Bituminous carpet
- d) Bituminous concrete

Q.13) At liquid limit, all soils possess

- a) Same shear strength of small magnitude
- b) Same shear strength of large magnitude
- c) Different shear strengths of small magnitude
- d) Different shear strengths of large magnitude

Q.14) Which of the following values of pH represent a stronger acid?

- a) 2
- b) 5
- c) 7
- d) 10

Q.15) The pathogens can be killed by

- a) Nitrification
- b) Chlorination
- c) Oxidation
- d) None of the above



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Certificate

This is to certify that Mr. / Ms. Swapnil A. Gaikwad
has participated in Technical Quiz in Techknowledge
held on 04/02/2022
He / She is awarded 1st prize / certificate.



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Convener


Event Incharge


Principal



Swaminarayan Siddhanta Institute of Technology

Certificate

This is to certify that Mr. / Ms. NanJeevan K. Chavhan
has participated in Technical Quiz in Techknowledge
held on 04/02/2022
He / She is awarded 2nd prize / certificate.


Convener


Event Incharge


Principal



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Winner: - Swapnil Gaikwad



Runner Up:- Navjeevan Chauhan



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Department of Computer Engineering



Ref. No: SSIT/CE/2021-22

NOTICE

Date: 27/1/2022

All Computer Engineering students of Swaminarayan Siddhanta Institute of Technology are here by inform that Technical events is organized under BITRAX forum is to be held on 5/2/2022 for the upcoming academic year. Interested candidate can enroll their name to participate in the events on or before 4/2/2022.

List of events:

- **Technical Events**
 1. SQL Quiz Competition
 2. Topic Presentation Competition
- **Non Technical Events**
 1. Counter Strike

President (CE)

Teacher Incharge

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Department of Computer Engineering



Ref. No: SSIT/CE/2021-22

List of Participants

Date: 4/2/2022

Final list of students applied for following events and timing & venue of event

Events

1. SQL Quiz Competition (11am-11:30am in Computer Lab)

Sr. No.	Name of Student	Branch
1.	Nikeeta Kailash Ambule	CE
2.	Abhit Arvind Mishra	CE
3.	Akash Korzare	CE
4.	Himanshu Bachle	CE
5.	Mona Prakash Vishwakarma	CE
6.	Ayush Girish Bokade	CE
7.	Tanvi Shrikhande	CE
8.	Patil Runank Pradip	CE
9.	Balbudhe Dattashri Jaideo	CE
10.	Shaikh Faizan Mohd Ajaz	CE
11.	Bheshaj Meshram	CE
12.	Farhan Khana Asif Khan	CE
13.	Ranjeet Maroti Zade	CE
14.	Tanmay Dinesh Bhoyar	CE
15.	Deepshree P Kuttarmare	CE

2. Topic Presentation Competition (11 am-2 pm in classroom F-06)

Sr. No.	Name of Student	Branch
1.	Meshram Ruchika Siddharth	CE
2.	Ganar Aachal Arvind	CE
3.	Talmale Shantanu Haribhau	ETC
4.	Raut Karan Pradip	CE
5.	Tayade Suraj Rajesh	ETC
6.	Balbudhe Dattashri Jaideo	CE



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7.	Mistry Jaianto Manindra	ME
8.	Sameer Lhipade	CE
9.	Khadase Harshal Gajendra	CIVIL
10.	Deepshree P Kuttarmare	CE
11.	Gupta Ritik Subhash	CIVIL
12.	Denge Mansi Prashant	CIVIL
13.	Kumare Krushna Dharmaji	CIVIL

3. Counter Strike (12 pm – 5 pm in Computer Lab)

Sr. No.	Name of Student	Branch
1.	Halami Swapnil Sampat	CIVIL
2.	Kolhe Lakhan Sukalu	CIVIL
3.	Swapnil Gajanan Shinde	CE
4.	Lokesh Narayan Raut	MECH
5.	Harshad Krushna Shende	MECH
6.	Koreti Payal Yashwant	CIVIL
7.	Vaibhav Vishnupant Kalse	CE
8.	Sweety Bhagwan Meshram	CIVIL
9.	Yogesh Vijay Chavhan	CE
10.	Priti Vijay Tayade	CIVIL
11.	Pankaj Ganesh Sapa	MECH
12.	Madavi Vikram Mangaji	CIVIL
13.	Boga Sangita Shriram	ETC
14.	Komal Baba Meshram	ETC
15.	Sana Maradona Manimohan	MECH
16.	Kalambe Shubham Umesh	MECH
17.	Arham Waquil Siddique	CE
18.	Minal Sunil Jibhkate	CE
19.	Prajwal Prakash Padmawar	CE
20.	Mistry Jaianto Manindra	MECH
21.	Halami Usha Vishwanath	ETC
22.	Dongare Mangesh Shankar	MECH
23.	Nikeeta Kailash Ambule	CE



Chae
EKO

Head of Computer Engg.
Swaminarayan Siddhanta Institute of
Technology, Kalmeshwar, Nag.

SP
Principal

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Ref. No: SSIT/CE/2021-22

List of Winner

Date: 5/2/2022

Events:

1. SQL Quiz Competition

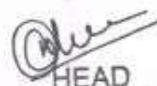
Sr. No.	Name of Student	Branch
1.	Nikeeta Kailash Ambule	CE
2.	Tanvi Shrikhande	CE

2. Topic Presentation Competition

Sr. No.	Name of Student	Branch
1.	Talmale Shantanu Haribhau	ETC
2.	Sameer Lhipade	CE

3. Counter Strike

Sr. No.	Name of Student	Branch
1.	Pankaj Ganesh Sapa	MECH
2.	Halami Usha Vishwanath	ETC


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Ref. No: SSIT/CE/2021-22

Report of Event

Date: 8/2/2022

With the co-operation of all teachers and students of Swaminarayan Siddhanta Institute of Technology, student of Computer Engineering successfully completed technical and non-technical events on 5/2/2022.

List of events are given below:

- **Technical Events**

1. SQL Quiz Competition
2. Topic Presentation Competition

- **Non Technical Events**

1. Counter Strike

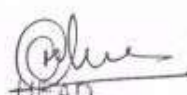
1. **SQL Quiz Competition**

In this event, we have first developed an Online Quiz App and upload it on GitHub repository. We have host the application online through which live URL link is created. Candidate use this URL to attempt the Quiz.

Online Quiz Link:

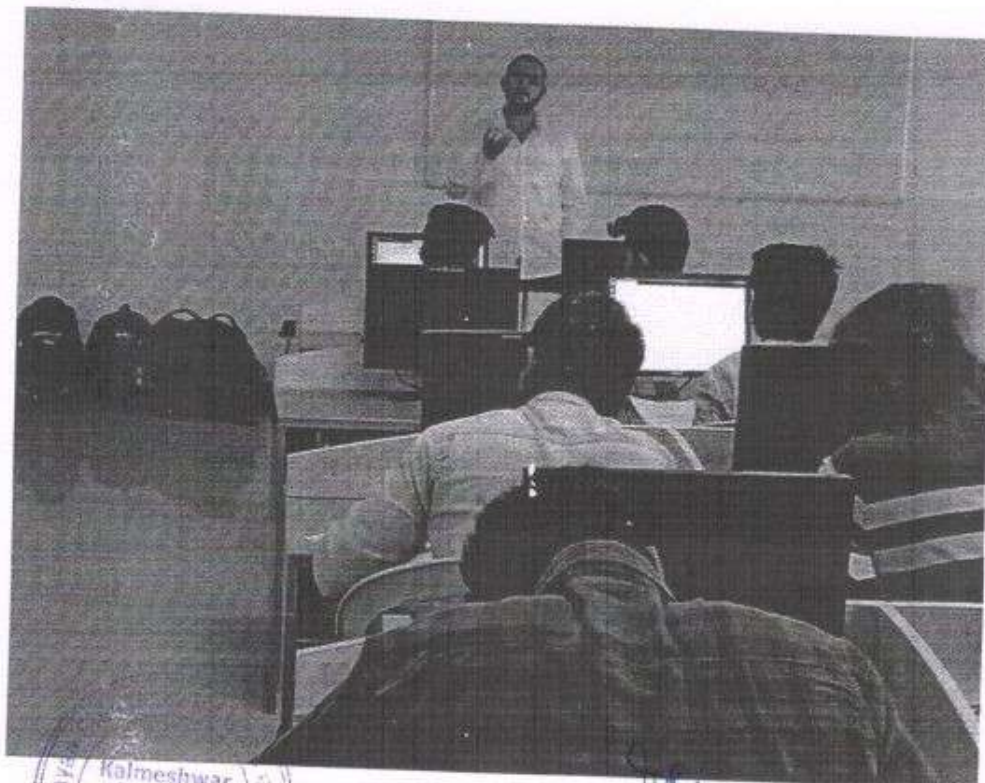
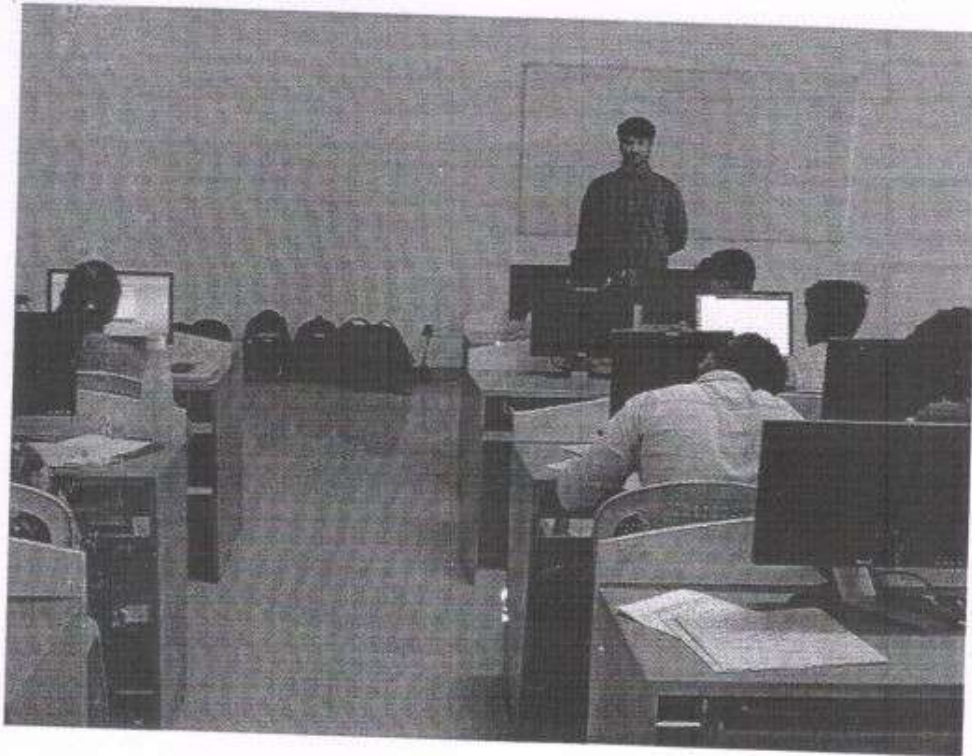


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2. Topic Presentation Competition

In this events, candidates prepare on a particular topic of Computer Engineering branch and present that topic. We organize this event to improve the presentation skills of the students.



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