2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process.

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Introduction

The use of ICT in education adds value to teaching and learning by enhancing the effectiveness of learning. ICT can lead to improved student learning and better teaching methods. In IIST, we are using ICT in education to support, enhance, and optimize the delivery of education and teachers are combining Technological with Pedagogical Content Knowledge to engage students in long term learning.

Engaging Classrooms: All our classrooms, seminar halls, and auditoriums boast LCD projectors, screens, and green boards. Students leverage online resources like e-libraries, journals, eBooks, and databases.

Beyond Chalk and Talk: Faculty members go beyond traditional methods, using PPTs, videos, digital slates, audio systems, document cameras, and response systems to foster interactive learning. Workshops on CADCAM, programming languages, and simulations equip students with cutting-edge skills.

Mobile Knowledge: Learning transcends physical boundaries. Wi-Fi access and online platforms like YouTube, emails, WhatsApp groups, Zoom, Google Classrooms, and LMS empower students to access information anytime, anywhere, enhancing their field-specific knowledge.

ICT is not just a trend but a cornerstone of IIST's vision. We empower students to become lifelong learners, equipped for success in the digital age.

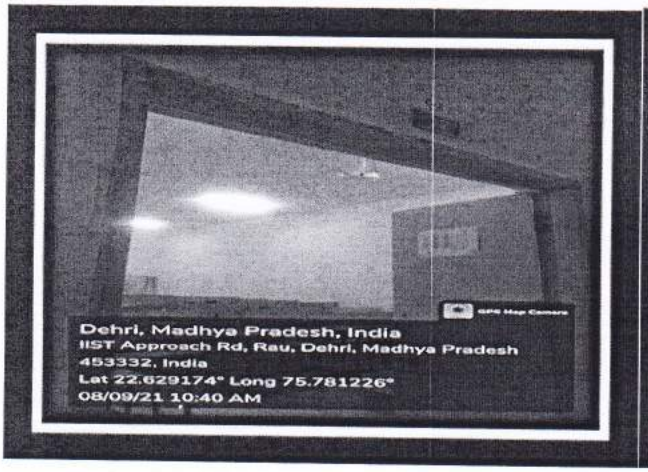
The available ICT facilities used by the faculty in the institute are as follows:

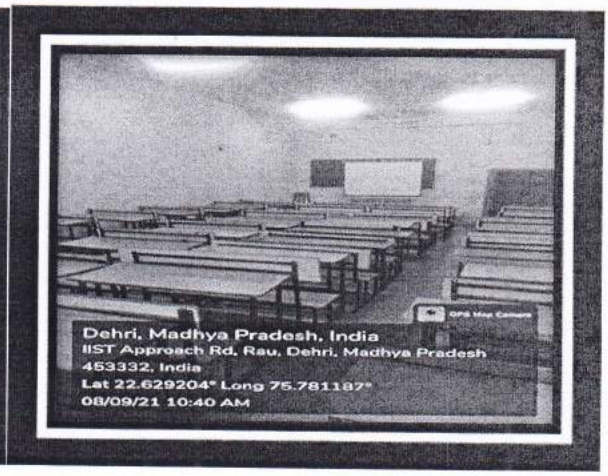
1. Projectors- 56 projectors are available in different classrooms/labs.
2. Desktop and Laptops- 116 computer (Intel-i5 12th Gen,16 GB RAM, 512 GB SSD, 22" LED Screen), Intel-i3 (12GB RAM, 240 GB SSD, 500 GB HDD, 22" LCD Monitor) one for each faculty, in all 36 classrooms, 3 seminar halls, 2 auditorium and one for each staff and 575 for exclusive for academic usages.

3. Printers- 61 Printer available and they are installed at HOD Cabins, admin block, principal office, and all prominent places.
4. Photocopier machines - Multifunction printers are available at all prominent places in the institute. There are three photostat machines available in campus.
5. Scanners- 9 scanner available at all prominent places.
6. Seminar Rooms- Three seminar halls are equipped with all digital facilities.
7. Smart Board- One smart board is installed in the campus.
8. Auditorium- Two auditorium is digitally equipped with mike, projector, cameras, and computer system.
9. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom
10. Skill rack, Code chef, Git Hub, GDC, Hacker Rank (Online Coding Platform)- inter college competition.
11. MOOC Platform (NPTEL, Coursera, edX etc)
12. Digital Library resources (DELNET, RGPV e-Library, IIST e-Library, NDLI, J-GATE, etc)
13. CCTV- 183 CCTV cameras at different places on the campus.
14. Bio Metric Attendance Machine: In the year 2022 Institute has purchase 13 Bio Metric attendance machine for Student Attendance.
15. Other accessories: Digital Slate, Document camera, Students Response System, Video Cam, Audio Mixer etc.
16. Virtual labs are used to conduct labs through simulations.

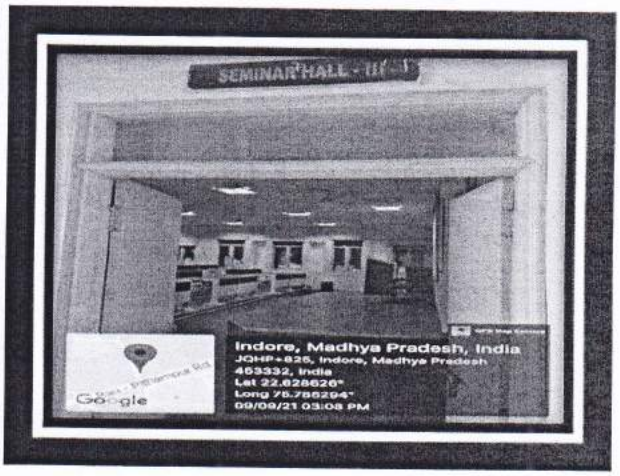
ICT Infrastructure Facility Available in the Institute

a. ICT Enabled Classrooms

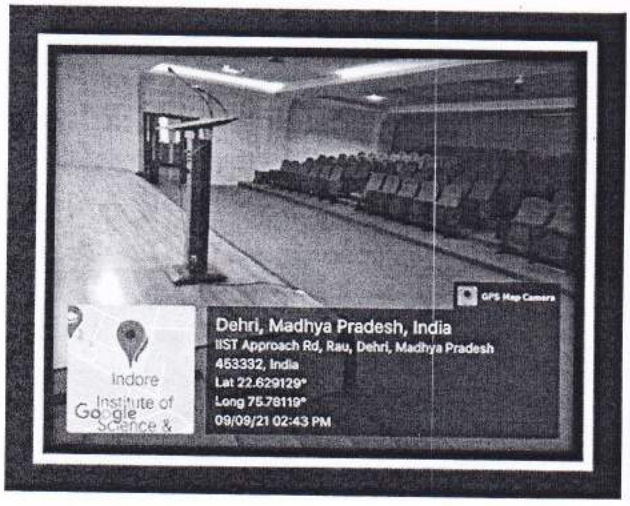


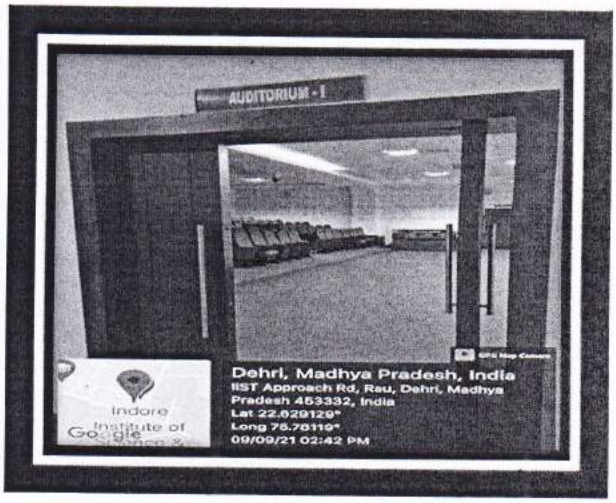


b. ICT Enabled Seminar Halls



c. ICT Enabled Auditorium





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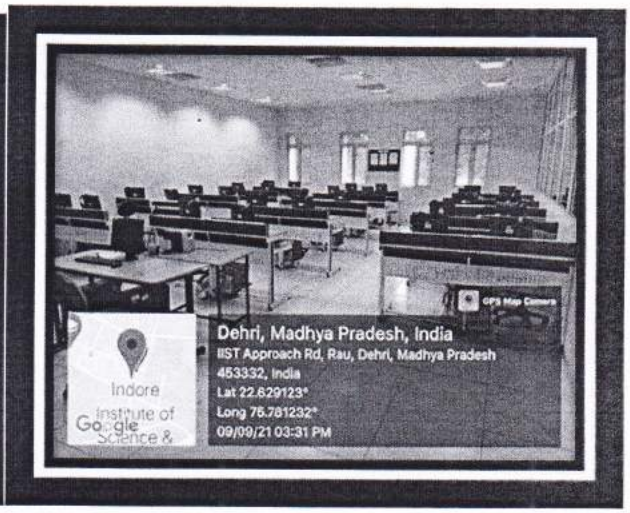
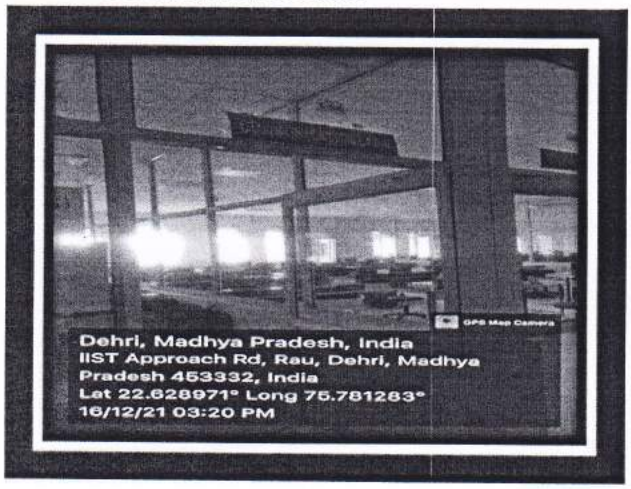
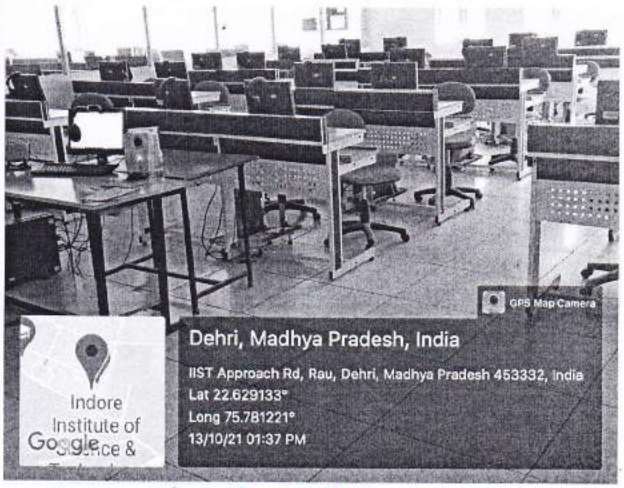
d. ICT Enabled Lab

e. Language Lab



f. Communication Lab





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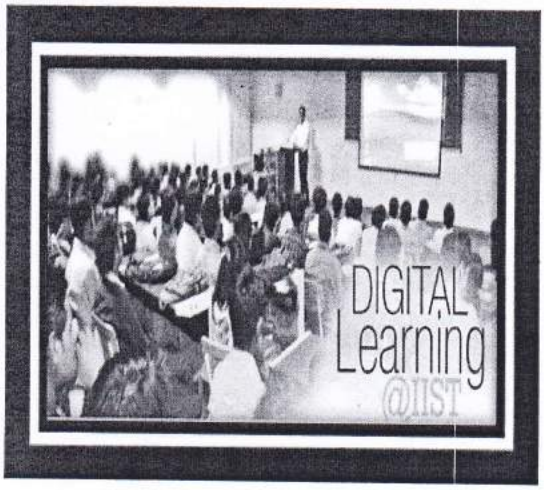

Communication Labs – The institute has a well-equipped Language lab with 62 computers in two labs, licensed software, and a LAN facility.

Institute is well equipped with wired and wireless internet access and that can be also accessed in classrooms, libraries, labs, corridors, auditoriums, seminar halls, and all dwelling areas. High-Speed Internet facility- The institute upgraded its internet leased line (1:1) bandwidth from 50 Mbps to 310 Mbps bandwidth on the whole campus.

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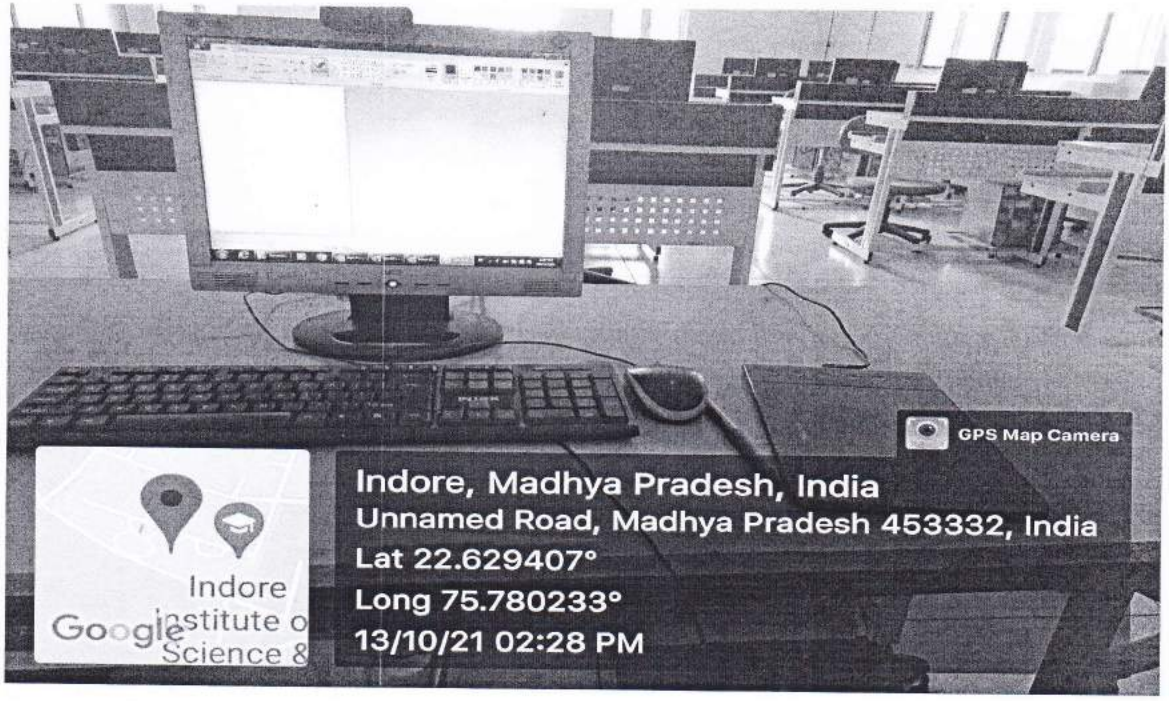
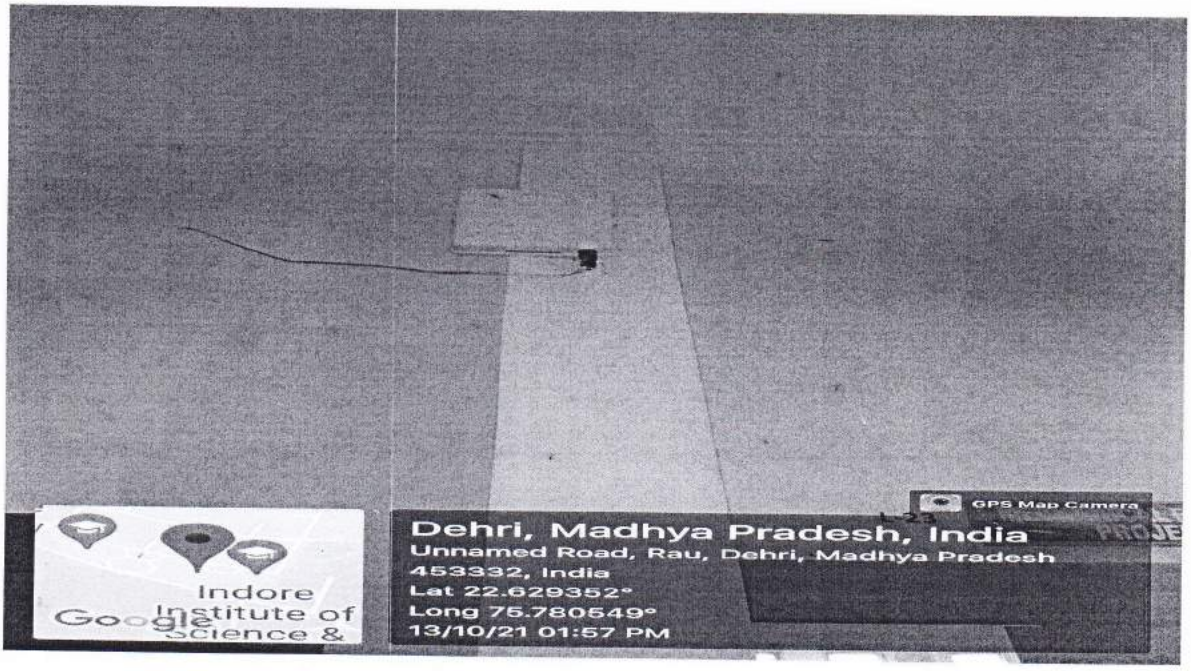
ICT Various Tools Available in the Institute



Digital Slate



Wi-Fi

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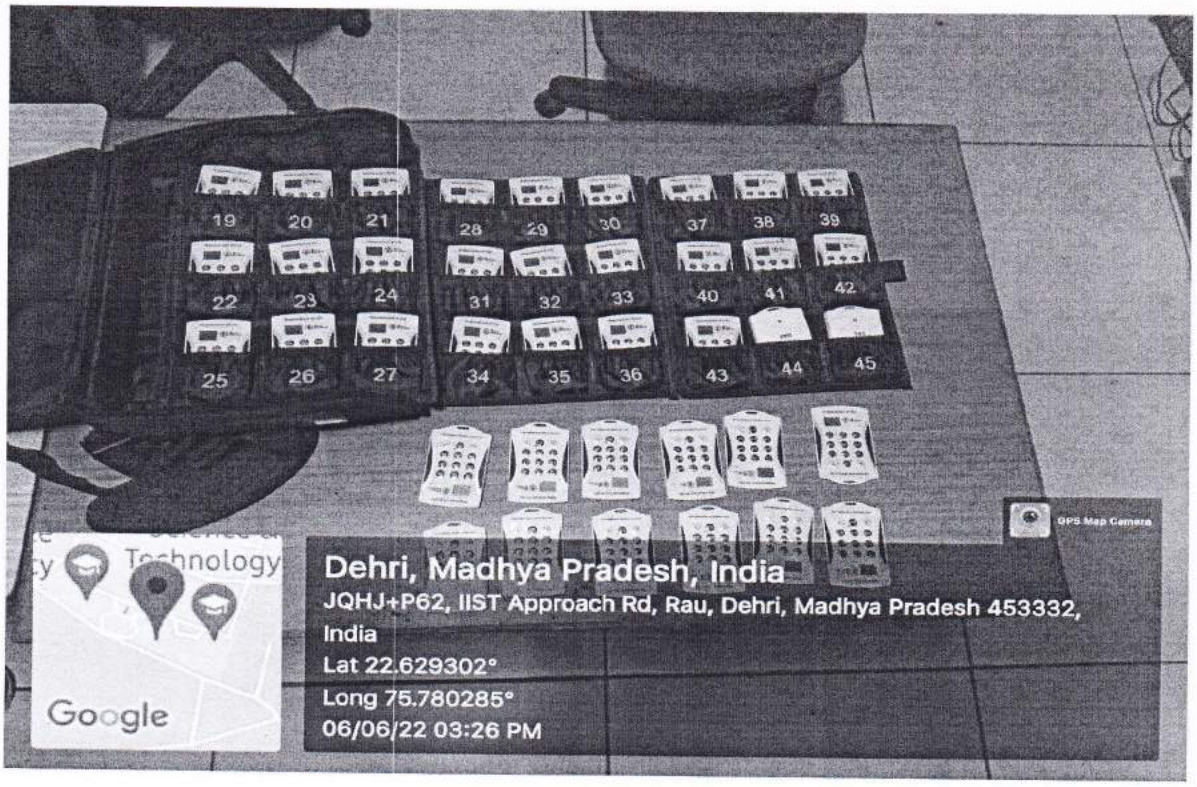

Student Response System

Document Camera- Visualize

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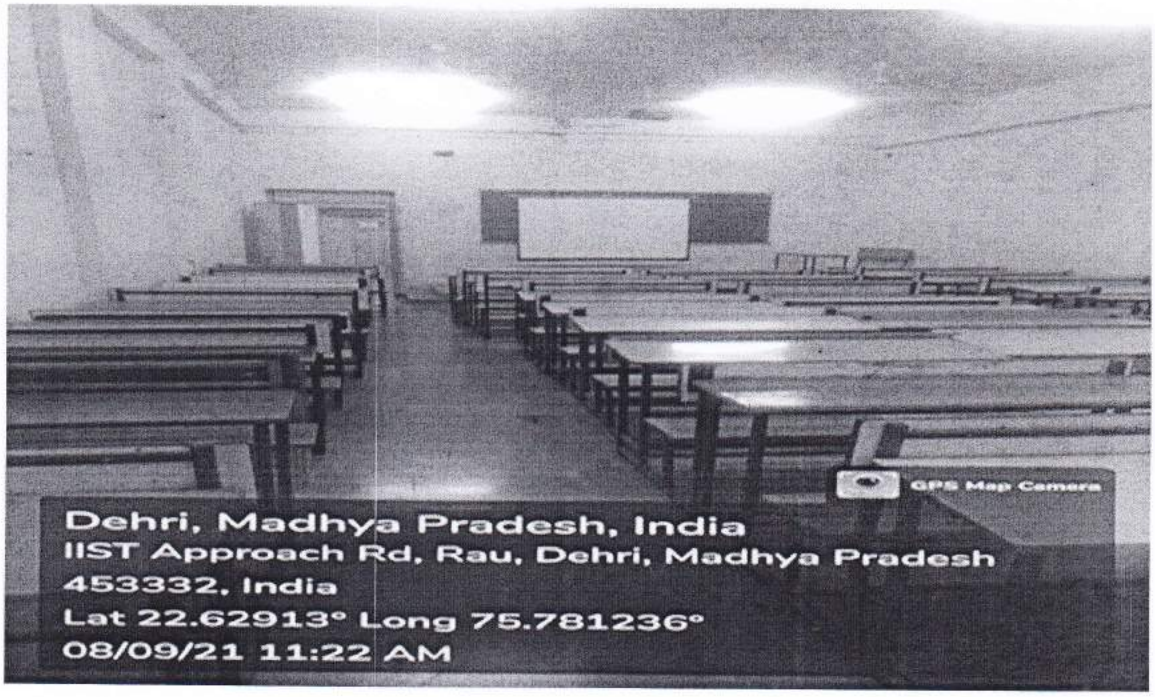
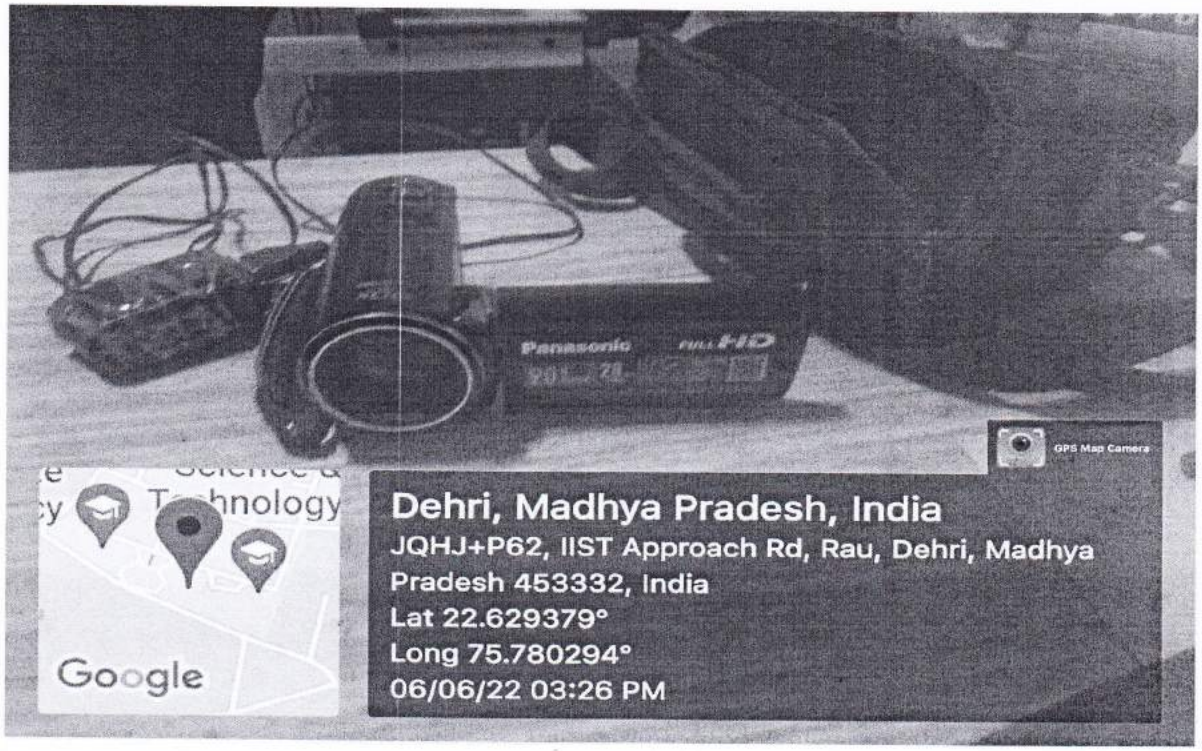


Use of LCD Projector in Classrooms & Labs



Video Cam

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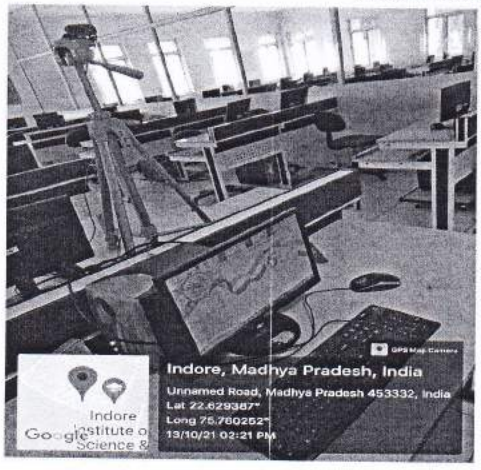
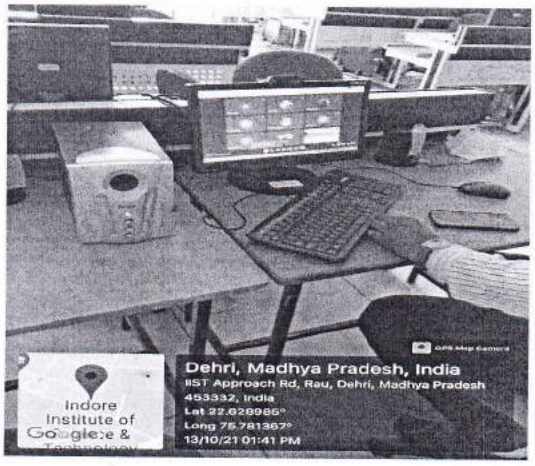
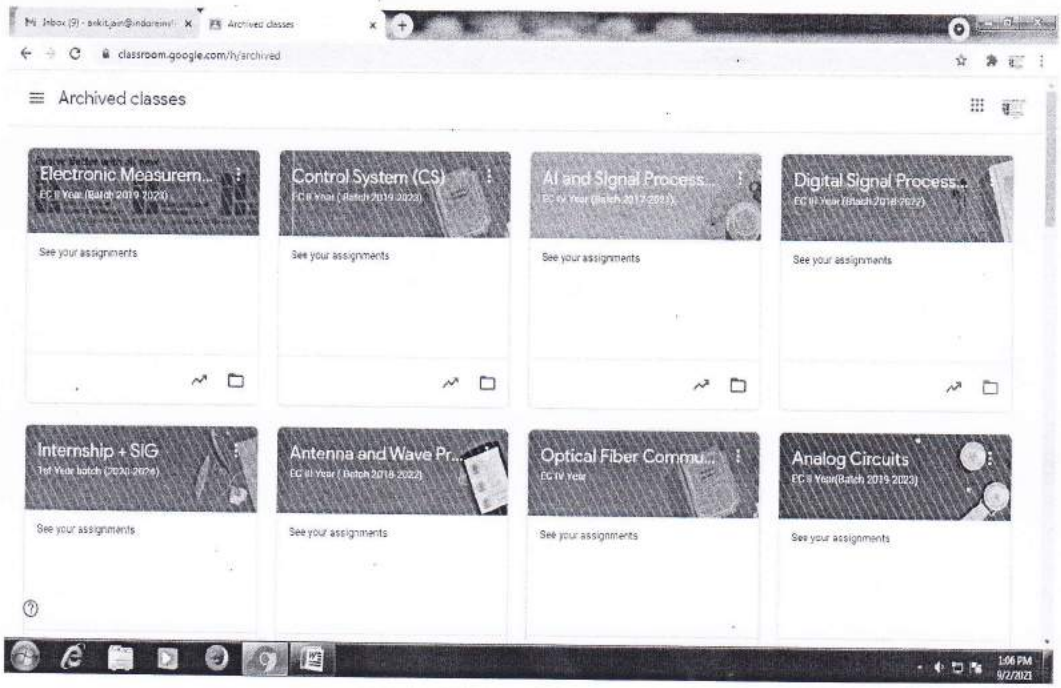
TV Tuner Card

Allen Heth -Sound Mixer

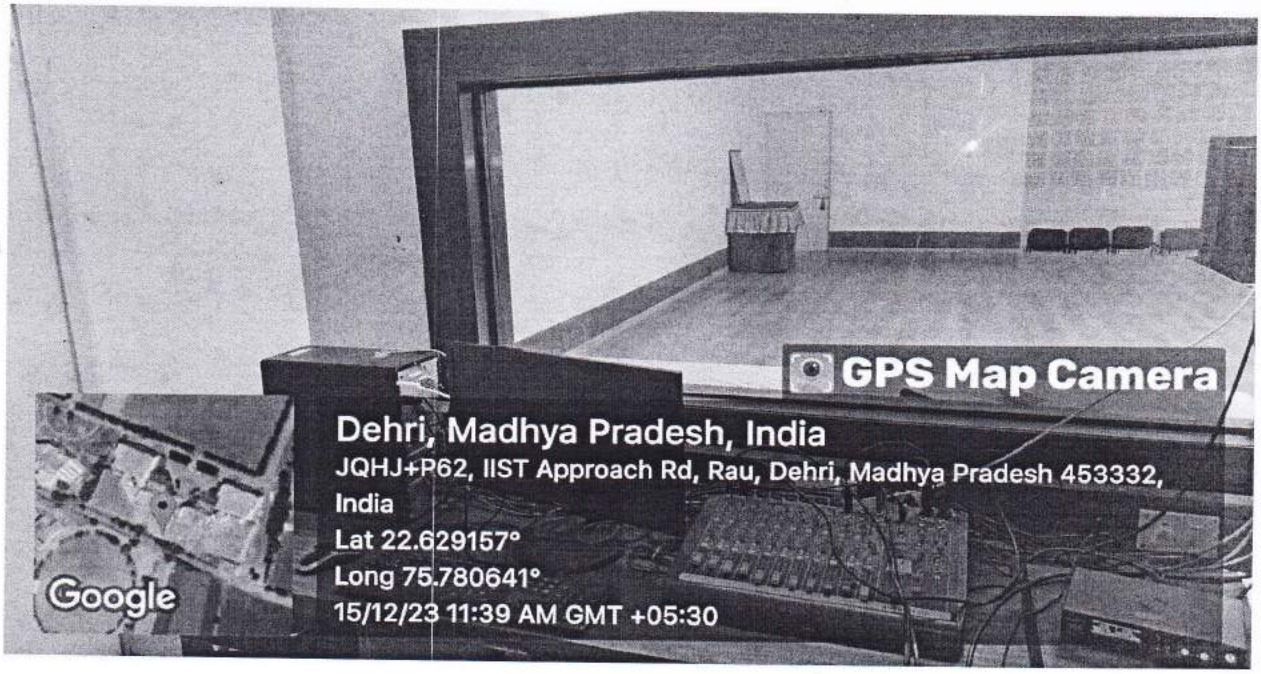




Lecture Recording using web camera and live session using meet.



Sample Google Classroom



Auditorium with ICT facilities

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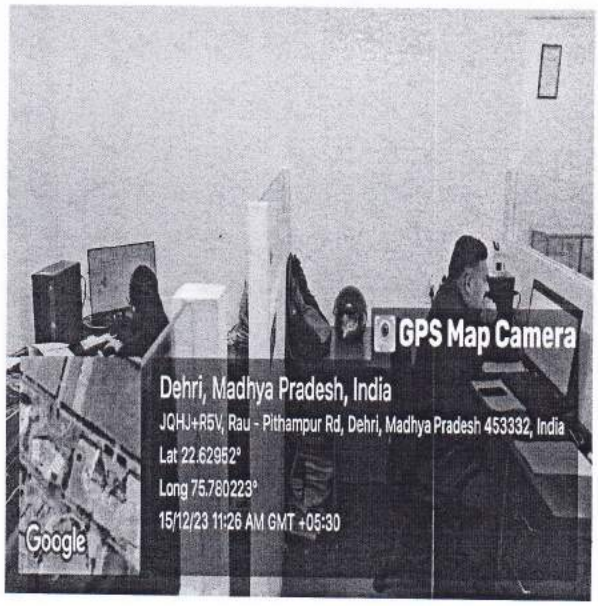
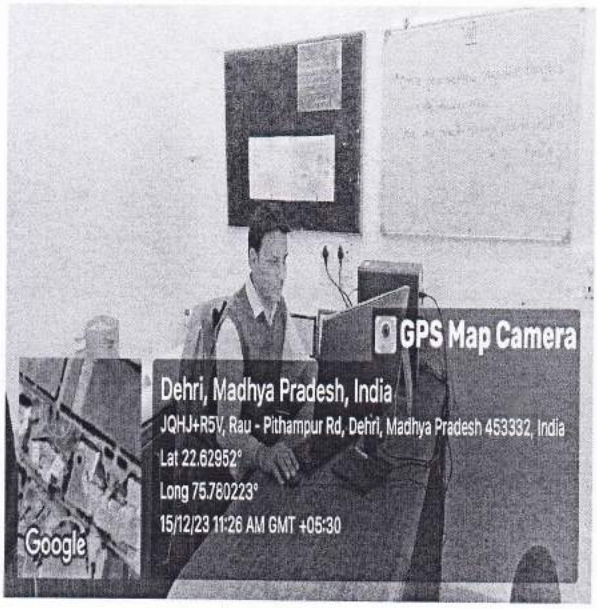
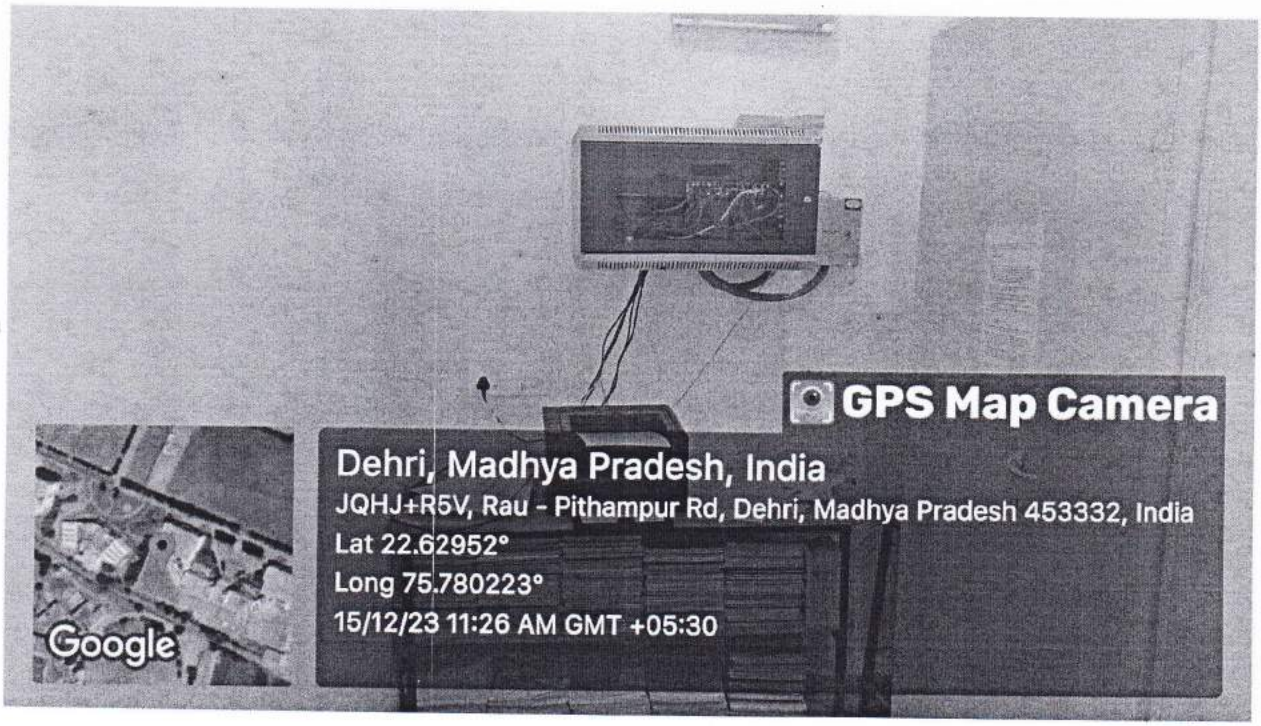
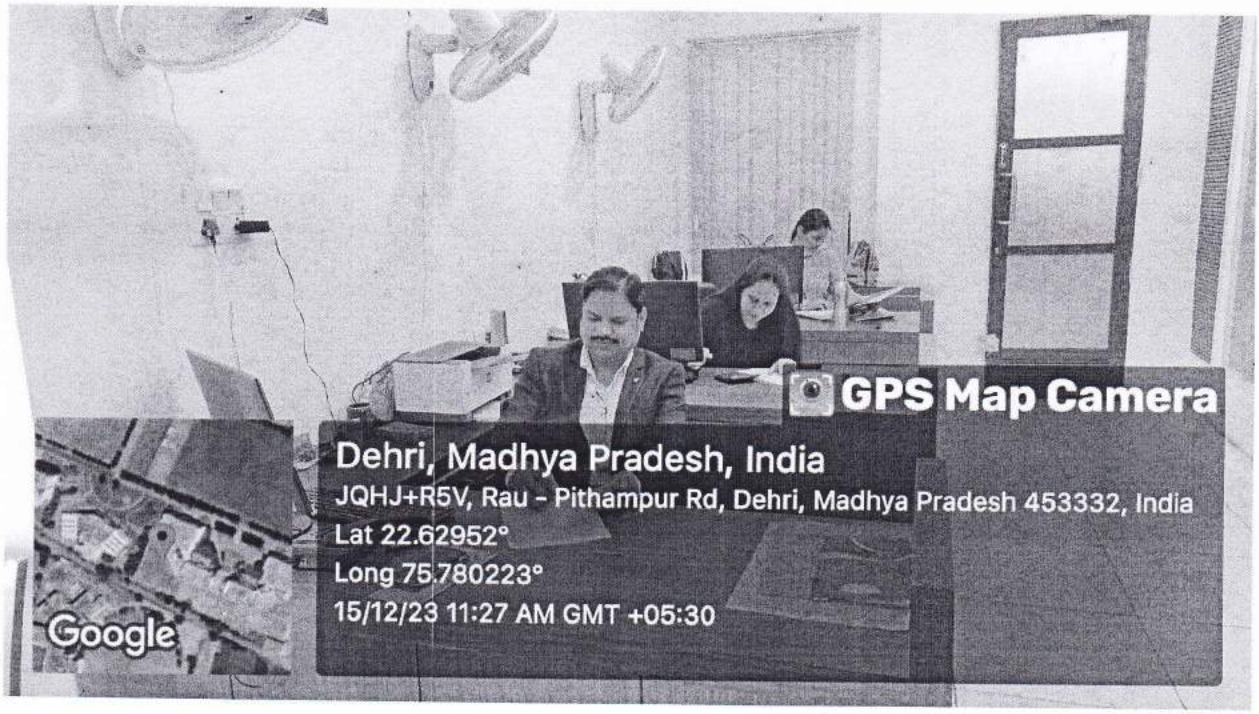




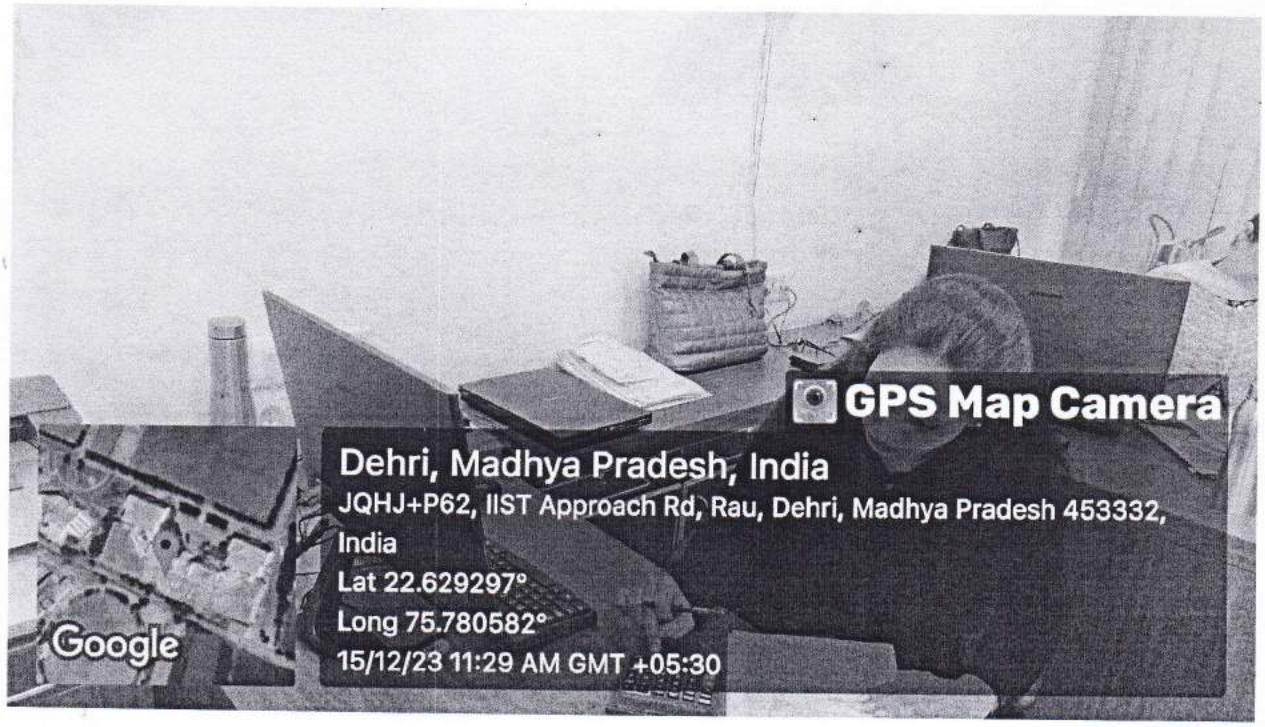
Faculties provided individual desktops.



Printers available at prominent places



Staff provided individual desktops.



Scanners

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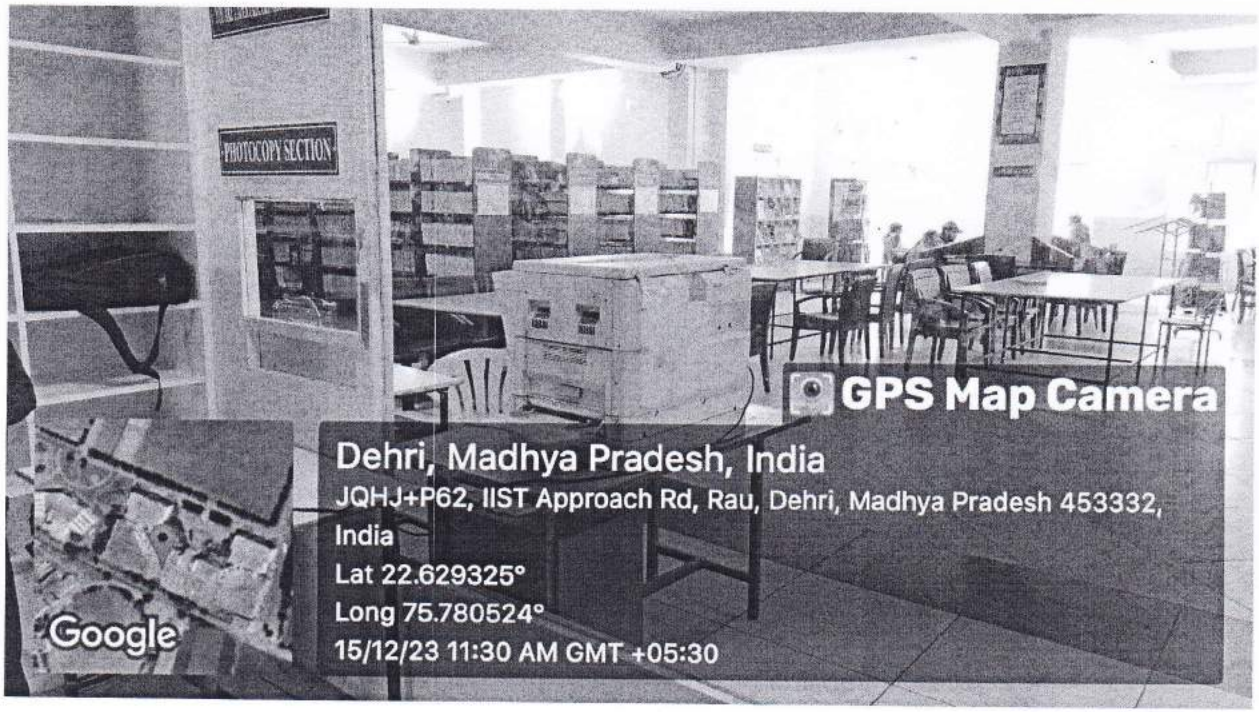
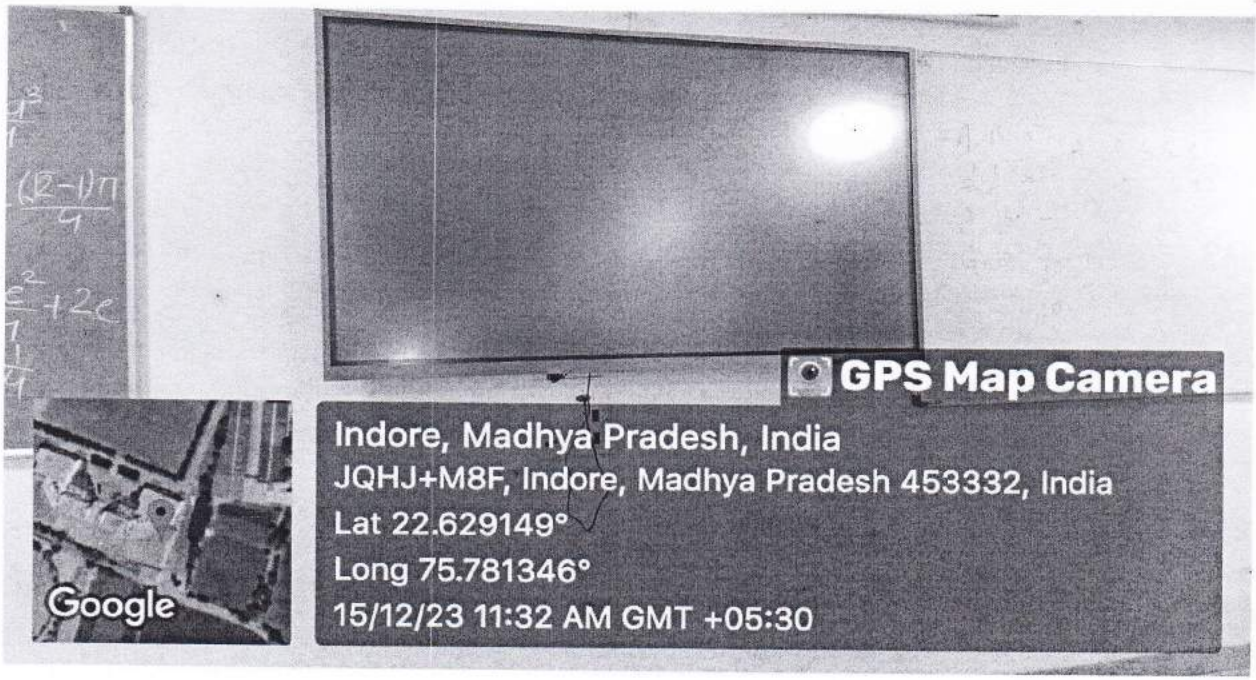


Photocopy Machines



Smart Board

Laptops in Seminar Halls

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Use of ICT By Faculty

1. PowerPoint presentations- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors. The PPTs are enabled with animations and simulations to improve the effectiveness of the teaching- learning process.
2. Industry Connect- Seminar and Conference room are digitally equipped where guest lectures, expert talks and various competitions are regularly organized for students.
3. Online quiz- Faculties prepare online quiz for students after the completion of unit with the help of GOOGLE FORMS.
4. Video Conferencing- Students are counselled with the help of Zoom / Google meet applications.
5. Video lecture- Recording of video lectures is made available to students for long term learning and future referencing.
6. Online competitions- Various technical events and management events such as Poster making, Ad-mad show, Project presentations, Business quiz, Debates, paper presentations etc. are being organized with the help of various Information Communication Tools.
7. Workshops- Teachers use various ICT tools for conducting workshops on latest methods such as Programming languages, simulations etc.

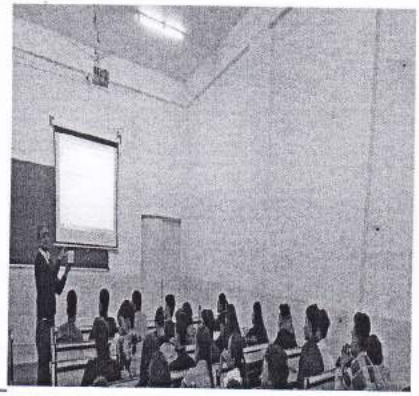
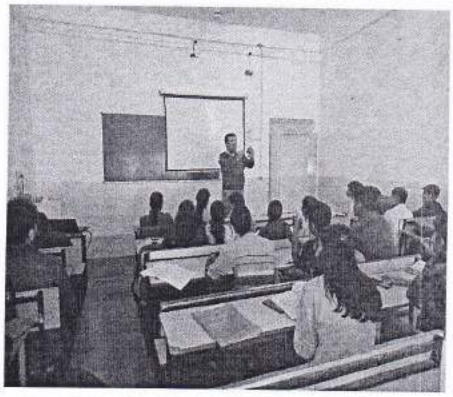
Teaching Using Physical Models and ICT Tools

In the course, Electronics, and Instrumentation, while explaining about the CRT to the students of II Year ECE, the physical device of CRT was demonstrated to the students to get them a better understanding about the working of the device.

Name of the Teacher: Mr. Devendra S Mandloi

In the course, BEEE, while explaining about the motors to the students of I Year CSE, the physical open weiding was demonstrated to the students to get them a better understanding about the working of the motor.

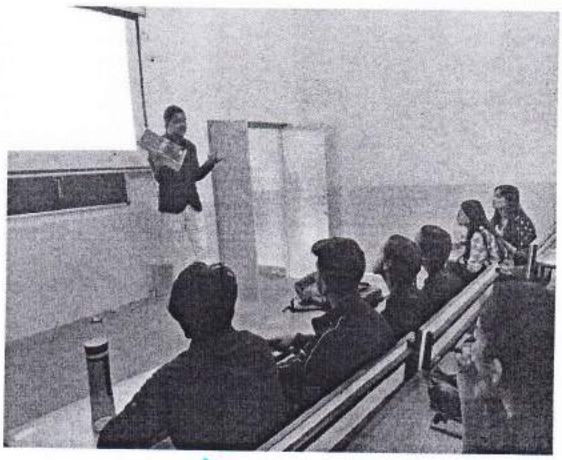
Name of the Teacher: Mr. Ashutosh Kashiv

Teaching Using Demonstration of Kit and ICT Tools

In the course, Microprocessor and its application, Subject teacher demonstrated the microprocessor kit in the class for better understanding the concept of processor.

Name of the Teacher: Dr. Mukesh Patidar

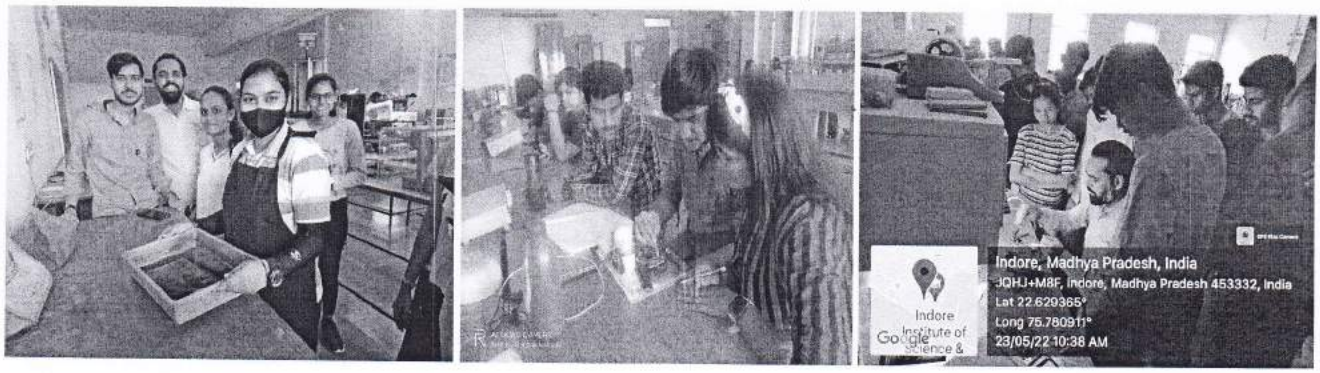


Conducted Workshops using ICT Tools

A workshop for students was conducted on Circuit Design & Fabrication with Hands – on Practice" for 1st Year and 2nd Year ECE students. 17 students participated with enthusiasm in this program, to learn PCB Design.

A workshop for students was conducted on PCB Design and Testing with Hands – on Practice" for 1st Year and 2nd Year ECE students. 22 students participated with enthusiasm in this program, to learn PCB Design. Different stages of PCB fabrication were learnt by the students.

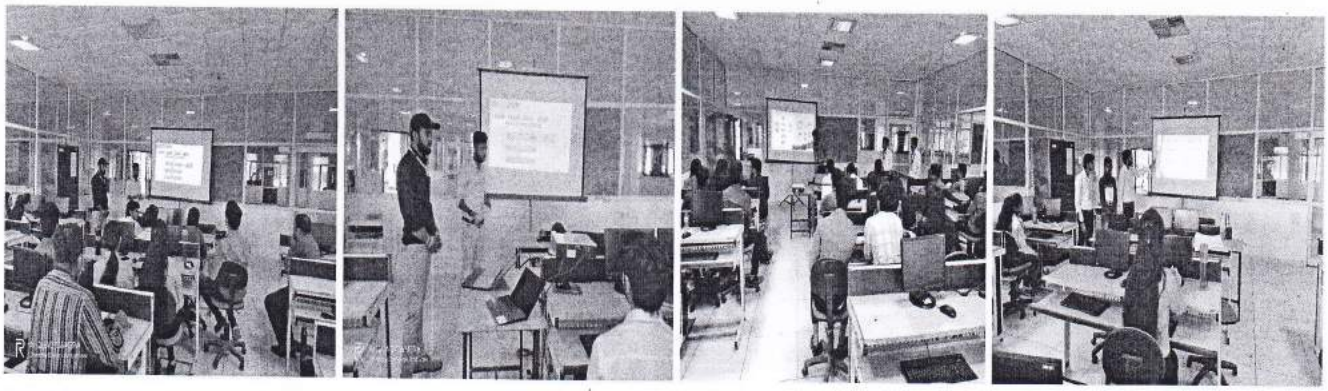
Name of the Teacher: Mr. Ravi Yadav and Mr. Raju S Dawer.



Peer Learning Through Project Presentation using ICT Tools

The ECE Department organized a Peer Learning through Project Presentation of EC IV Year in VLSI Lab for III year ECE Students.

Name of the Teacher: Mr. Shravan Namdeo and Mr. Ravi Yadav.



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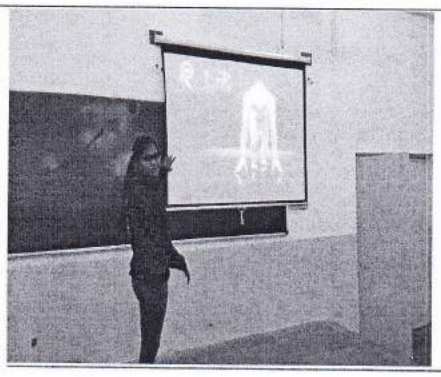
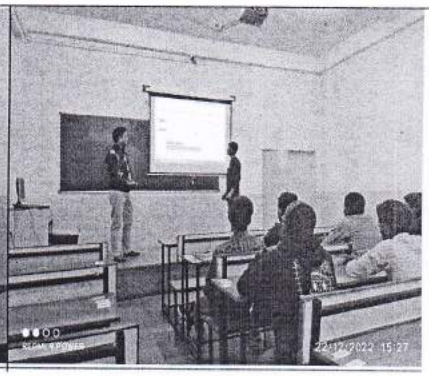
Peer Learning Through Technical Presentation using ICT Tools

The ECE Department organized a Peer Learning through Technical Presentation on various emerging areas like robotics, IOT etc of EC II Year on 22/12/2022.

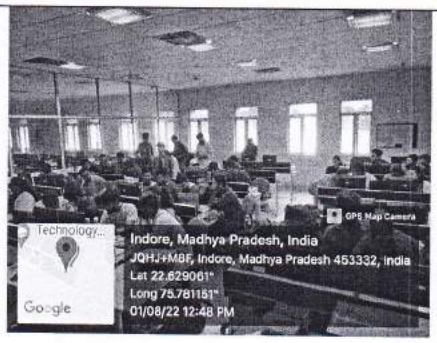
Name of the Teacher: Mr. Prabhat Pandey, Mr. Nitin Chauhan, and Mr. Amit Kumar

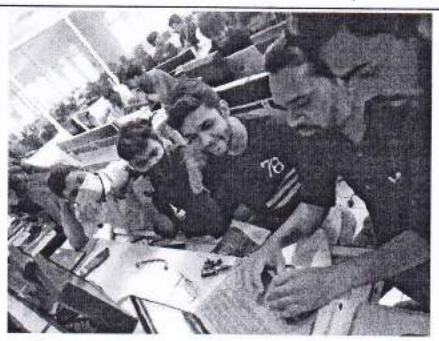
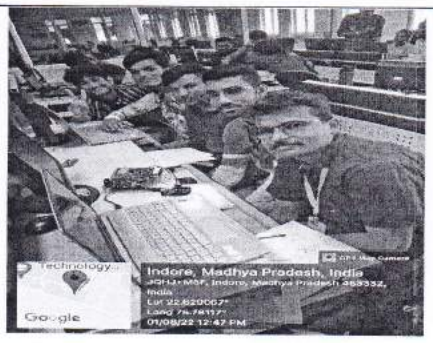




Conducted Internship using ICT tools

A 40 Hour Internship for ECE students was conducted on Real Time Embedded System and IoT Application with Hands – on Practice" on 28th July 2022 onwards in association with Pi Tech. Pvt. Ltd., for III Year ECE students. 52 students participated with enthusiasm in this program, to learn the Embedded System and IoT Applications.



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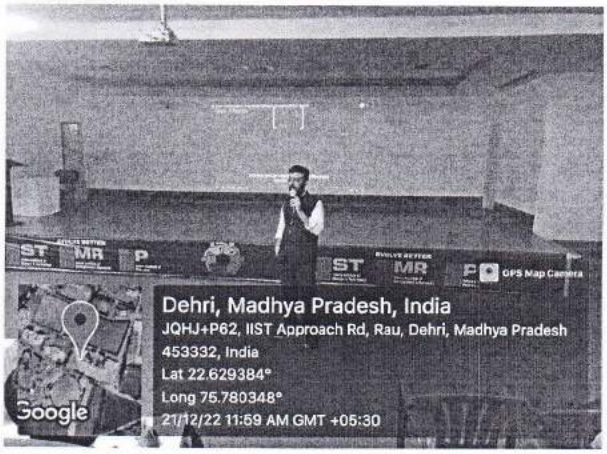
Conducted Certificate Course / Value added Courses using ICT Tools

A 30 Hour Certificate Course for ECE students was conducted on AI Based Product Development on 15-23 Dec 2022 by Mr. Shivang Trivedi, for II Year ECE students. 52 students participated with enthusiasm in this program, to learn the AI Application.



ICT Teaching using animation videos

The concepts of modulation techniques can be understood in a better way by the students if animated videos are presented to them.

The concept of Amplitude Modulation technique wherein the amplitude of the carrier wave is modified according to the instantaneous amplitude of the message signal is taught using animated videos that are available in the internet.

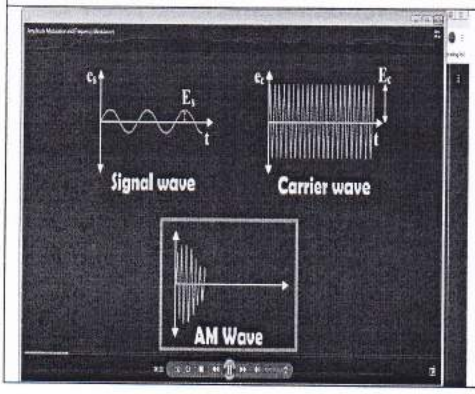
Name of the Teacher: Ms. Arpita Tiwari

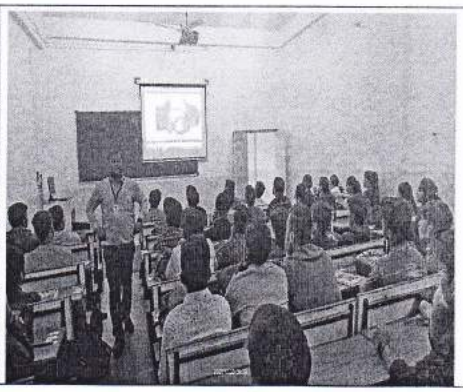
The concepts of transistor as a switch can be understood in a better way by the students through animated videos presented to them.

Name of the Teacher: Mr. Prabhat Pandey

The concepts of motors were explained through animated videos for better understanding of working of the motor.

Name of the Teacher: Mr. Shravan Namdeo





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Conducted Quiz using ICT tools.

It is Mandatory all-in subjects and certificate course to conducted at least one Quiz examination

Video Recording of Lectures using ICT tools

In most of subject, subject faculties shared recorded lecture for regular classes and lab work so that before coming in the class they have idea about topics.

Video Recording of Project work done by the students

ECE department motivate the students to submit recorded project explanation so that students understand the way of communication and shared the video to the junior to understand the importance of project as well as to understand the project work.

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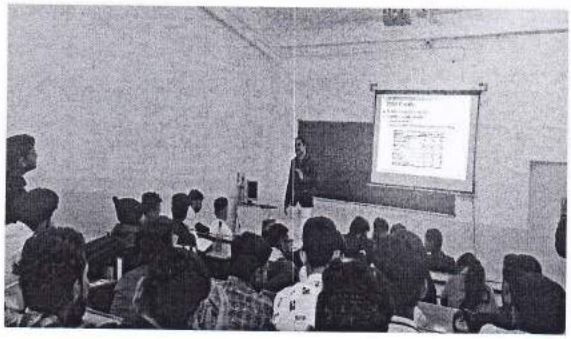
Regular teaching using PPT.

In most of Subject teachers used PPT for explaining the topics and used video and animated video for better understanding of content.



Indore Institute of Science and Technology IQAC INDORE

Indore Institute of Science & Technology INDORE

Proof of Google workspace for Education (Bill).

Cloud Companions
Your Companion towards Cloud Journey

TAX INVOICE

Invoice# CCP/22-23/835

Balance Due
1,07,882.00

CloudCompanions Technology Pvt. Ltd
1st Floor, Sky Loft, Creaticity Mall, Opposite Golf Course
Shastrinagar, Yerawada
Pune Maharashtra 411006
India
GSTIN 27AAHCC4526F1ZS

Bill To
Shail Educational and Welfare Society
Opposite IIM, Rau - Pithampur Road
Rau, Indore
453331 Madhya Pradesh
India

Invoice Date :	25/02/2023
Terms :	Due on Receipt
Due Date :	25/02/2023
P.O.# :	SEWS/PO/22-23/532

Place Of Supply: Madhya Pradesh (23)

#	Item & Description	Qty	Rate	Amount
1	**Google Workspace for Education** Domain- indoreinstitute.com (Teaching and Learning Upgrade License for Half Year (6 Month Plan) Gmail for Education- 100 TB Shared Storage + 100 GB Per user 250 Google Meet Participant Limit Meet Video recording & Live Streaming Attendance & Breakout Rooms Calendar - Simple, Sharing for Teamwork Gtalk - Text, Voice & Video with Meet Google Drive & Google Docs Google Sites - Intranet Portals made easy Google Vault Features (Billing Period- 7th February 2023 to 6th August 2023) --- Technical Support (365x24x7) Phone, Email Web-based (help center, user-to-user forum)	115.00	795.00	91,425.00

Sub Total	91,425.00
IGST18 (18%)	16,456.50
Adjustment	0.50
Total	**1,07,882.00**
Balance Due	**1,07,882.00**

Indore Institute of Science & Technology IQAC

Indore Institute of Science & Technology

Proof of ZOOM Platform (Bill).

Tax Invoice

Original for Recipient and Duplicate for Supplier

zoom

Signature Not Verified
Digitally Signed By:
DS ZVC INDIA PRIVATE LIMITED 1
Wed 01-Mar-2023 10:59:39 IST
Approved by: Sameer Rao

Invoice Date: Feb 28, 2023
Invoice #: INV191020701
Payment Terms: Due Upon Receipt
Due Date: Feb 28, 2023
Account Number: 7007747593
Currency: INR
Account Information: Shail Educational & Welfare Society

Zoom GSTIN: 27AABCZ4218R1ZP
Zoom PAN: AABCZ4218R

Name of Consignee (Place of supply): System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 (State Code: 23)
India

nilesh.naik@indoreinstitute.com

Purchase Order Number:

Customer GSTIN:
Customer PAN:

Whether tax is payable on reverse charge basis - No.

Name of Recipient (Billed to): System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 (State Code: 23)
India

nilesh.naik@indoreinstitute.com

Zoom W-9

Question about your Digital Signature?

Charge Details

CHARGE DESCRIPTION	SUBSCRIPTION PERIOD	SUBTOTAL	TAXES, FEES & SURCHARGES	TOTAL
Charge Name: Zoom One Pro Monthly Quantity: 1 Unit Price: INR1,300.00 HSN of Goods/Services: 998424	*Feb 28, 2023-Mar 30, 2023*	INR1,300.00	INR234.00	*INR1,534.00*

Taxable Value	INR1,300.00
Total (Including Taxes, Fees & Surcharges)	INR1,534.00
Invoice Balance	INR0.00

Taxes, Fees & Surcharge Details

Indore Institute of Science & Technology IQAC

Indore Institute of Science & Technology

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under section 2(f)

Tax Invoice

Original for Recipient and Duplicate for Supplier

zoom

ZVC India Private Limited
Tata Pratapur No.06A11SA06A127
Sai Baba Road, Marol, Andheri East
Mumbai Maharashtra 400059

Signature Not Verified
Digitally Signed By:
DS ZVC INDIA PRIVATE LIMITED 1
Sat 01-Apr-2023 07:10:15 IST
Approved by: Sameer Raje

Invoice Date:	Mar 31, 2023
Invoice #:	INV195641957
Payment Terms:	Due Upon Receipt
Due Date:	Mar 31, 2023
Account Number:	7007747593
Currency:	INR
Account Information:	Shail Educational & Welfare Society

Zoom GSTIN: 27AABCZ4218R1ZP
Zoom PAN: AABCZ4218R

Name of Consignee (Place of supply): System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 (State Code: 23)
India

nilesh.naik@indoreinstitute.com

Purchase Order Number:

Customer GSTIN:
Customer PAN:

Whether tax is payable on reverse charge basis - No.

Name of Recipient (Billed to): System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 (State Code: 23)
India

nilesh.naik@indoreinstitute.com

Zoom W-9

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Charge Details

CHARGE DESCRIPTION	SUBSCRIPTION PERIOD	SUBTOTAL	TAXES, FEES & SURCHARGES	TOTAL
Charge Name: Zoom One Pro Monthly Quantity: 1 Unit Price: INR1,300.00 HSN of Goods/Services: 998424	*Mar 31, 2023-Apr 29, 2023*	INR1,300.00	INR234.00	*INR1,534.00*

Taxable Value	INR1,300.00
Total (Including Taxes, Fees & Surcharges)	INR1,534.00
Invoice Balance	INR0.00

Taxes, Fees & Surcharge Details

Indore Institute of Science and Technology
IQAC

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Tax Invoice

Original for Recipient and Duplicate for Supplier

zoom

ZVC India Private Limited
Raheja Platinum, No 06A113A,06A127
Sag Baug Road, Marol, Andheri East
Mumbai, Maharashtra, 400059

Signature Not Verified
Digitally Signed By:
DS ZVD INDIA PRIVATE LIMITED 1
Mon 01-May-2023 07:12:58 IST
Approved by: Sameer Raje

Invoice Date:	Apr 30, 2023
Invoice #:	INV200084688
Payment Terms:	Due Upon Receipt
Due Date:	Apr 30, 2023
Account Number:	7007747593
Currency:	INR
Account Information:	Shail Educational & Welfare Society

Zoom GSTIN: 27AABCZ4218R1ZP
Zoom PAN: AABCZ4218R

Purchase Order Number:

Customer GSTIN:
Customer PAN:

Whether tax is payable on reverse charge basis - No.

Consignee (Place of supply): System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 India

nilesh.naik@indoreinstitute.com

Zoom W-9

Question about your Digital Signature?

Name of Recipient (Billed to): System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 India

nilesh.naik@indoreinstitute.com

Charge Details

CHARGE DESCRIPTION	SUBSCRIPTION PERIOD	SUBTOTAL	TAXES, FEES & SURCHARGES	TOTAL
Charge Name: Zoom One Pro Monthly Quantity: 1 Unit Price: INR 1,300.00 HSN of Goods/Services: 998424	Apr 30, 2023 - May 30, 2023	INR1,300.00	INR234.00	*INR1,534.00*
			Taxable Value	INR1,300.00
			Total (Including Taxes, Fees & Surcharges)	INR1,534.00
			Invoice Balance	INR0.00

Taxes, Fees & Surcharge Details

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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under section 2(f)

Tax Invoice

Original for Recipient and Duplicate for Supplier

zoom

ZVC India Private Limited
Raheja Platinum, No.06A113A,06A122
Sag Baug Road, Marol, Andheri East
Mumbai, Maharashtra, 400059

Signature Not Verified
Digitally Signed By:
DS ZVC INDIA PRIVATE LIMITED 1
Mon 01-May-2023 07:12:58 IST
Approved by: Sameer Raje

Invoice Date:	Apr 30, 2023
Invoice #:	INV200084688
Payment Terms:	Due Upon Receipt
Due Date:	Apr 30, 2023
Account Number:	7007747593
Currency:	INR
Account Information:	Shail Educational & Welfare Society

Zoom GSTIN: 27AABCZ4218R1ZP
Zoom PAN: AABCZ4218R

Purchase Order Number:

Customer GSTIN:
Customer PAN:

Whether tax is payable on reverse charge basis - No.

Consignee (Place of supply):
System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 India

nilesh.naik@indoreinstitute.com

Zoom W-9

Question about your Digital Signature?

Name of Recipient (Billed to):
System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 India

nilesh.naik@indoreinstitute.com

Charge Details

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			Taxable Value	INR1,300.00
			Total (Including Taxes, Fees & Surcharges)	INR1,534.00
			Invoice Balance	INR0.00

Taxes, Fees & Surcharge Details

Institute of Science and Technology IQAC

Indore Institute of Science & Technology * INDORE *

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under section 2(f)

Tax Invoice

Original for Recipient and Duplicate for Supplier

Signature Not Verified
Digitally Signed By:
DS ZVC INDIA PRIVATE LIMITED 1
Sat 01-Jul-2023 07:11:17 IST
Approved by: Sameer Raje

zoom

ZVC India Private Limited
Raheja Platinum, No.06A113A,06A127
Sag Baug Road, Marol, Andheri East
Mumbai, Maharashtra, 400059

Invoice Date:	Jun 30, 2023
Invoice #:	INV208712573
Payment Terms:	Due Upon Receipt
Due Date:	Jun 30, 2023
Account Number:	7007747593
Currency:	INR
Account Information:	Shail Educational & Welfare Society

Zoom GSTIN: 27AABCZ4218R1ZP
Zoom PAN: AABCZ4218R

Purchase Order Number:

Customer GSTIN:
Customer PAN:

Whether tax is payable on reverse charge basis - No.

Consignee (Place of supply):
System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 (State Code: 23)
India

nilesh.naik@indoreinstitute.com

Zoom W-9

Question about your Digital Signature?

Name of Recipient (Billed to):
System Administrator
Opp. I.I.M, Rau-Pithampur Road,
Indore, Madhya Pradesh 453331 (State Code: 23)
India

nilesh.naik@indoreinstitute.com

Charge Details

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			Taxable Value	INR1,300.00
			Total (Including Taxes, Fees & Surcharges)	INR1,534.00
			Invoice Balance	INR0.00

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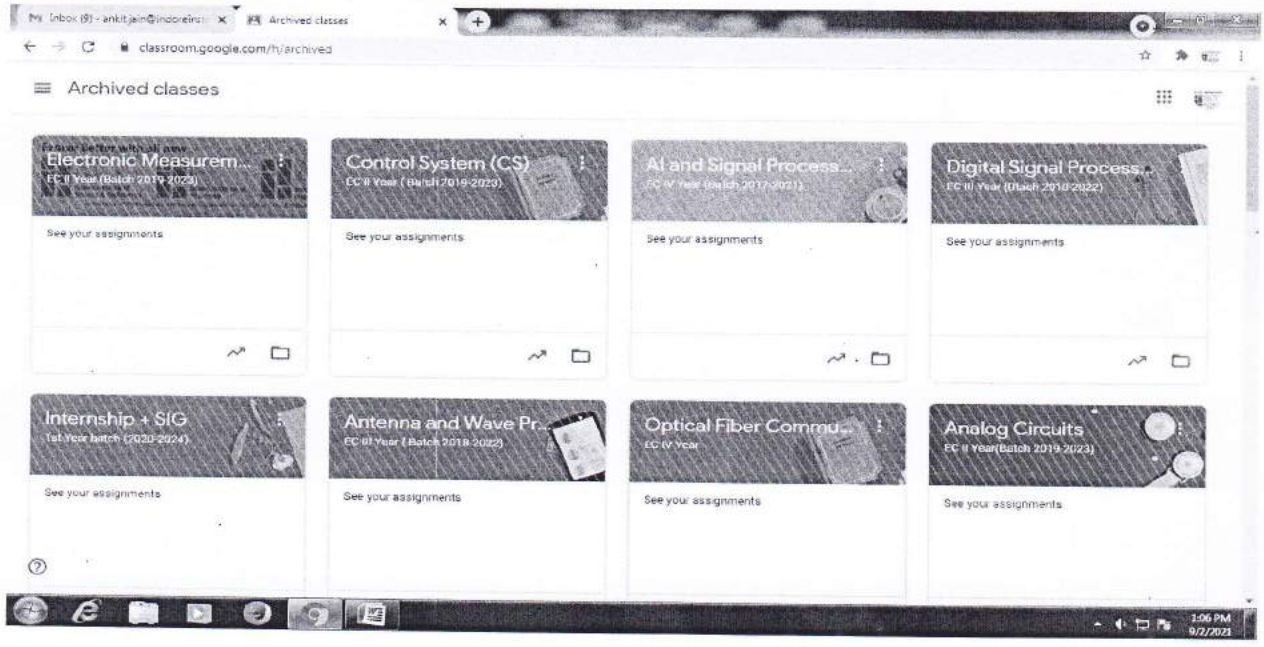
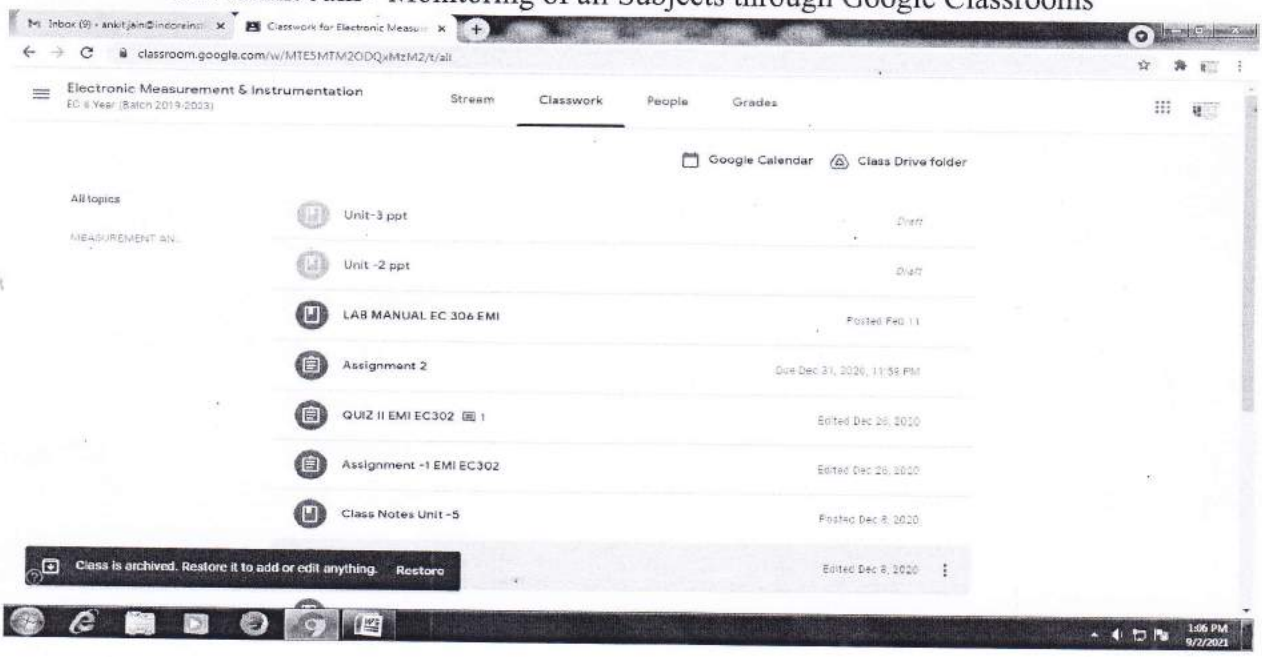
Proof for the Usage of Google Classroom



Mr. Ankit Jain - Monitoring of all Subjects through Google Classrooms



Mr. Devendra Singh Mandloi – Use Google Classroom as LMS shared Quiz, Assignment and PPT

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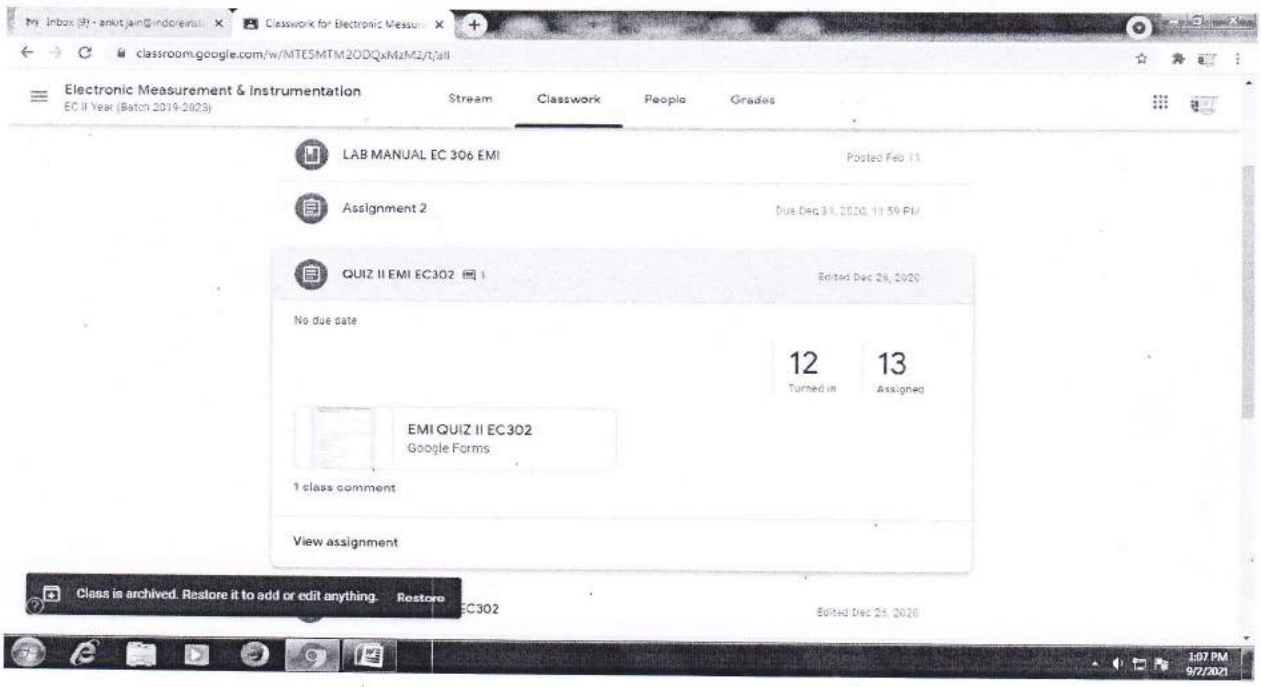
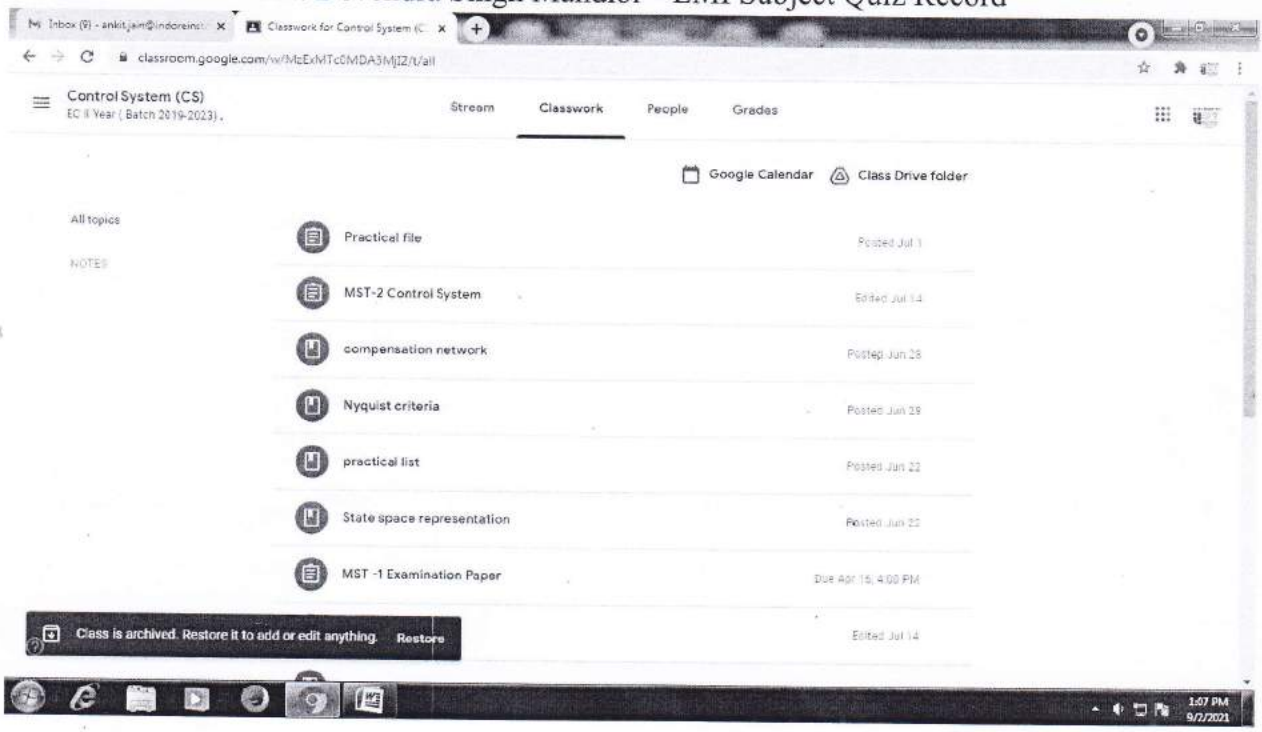


Mr. Devendra Singh Mandloi – EMI Subject Quiz Record



Control System – Shared Practical Files, PPT and MST Papers

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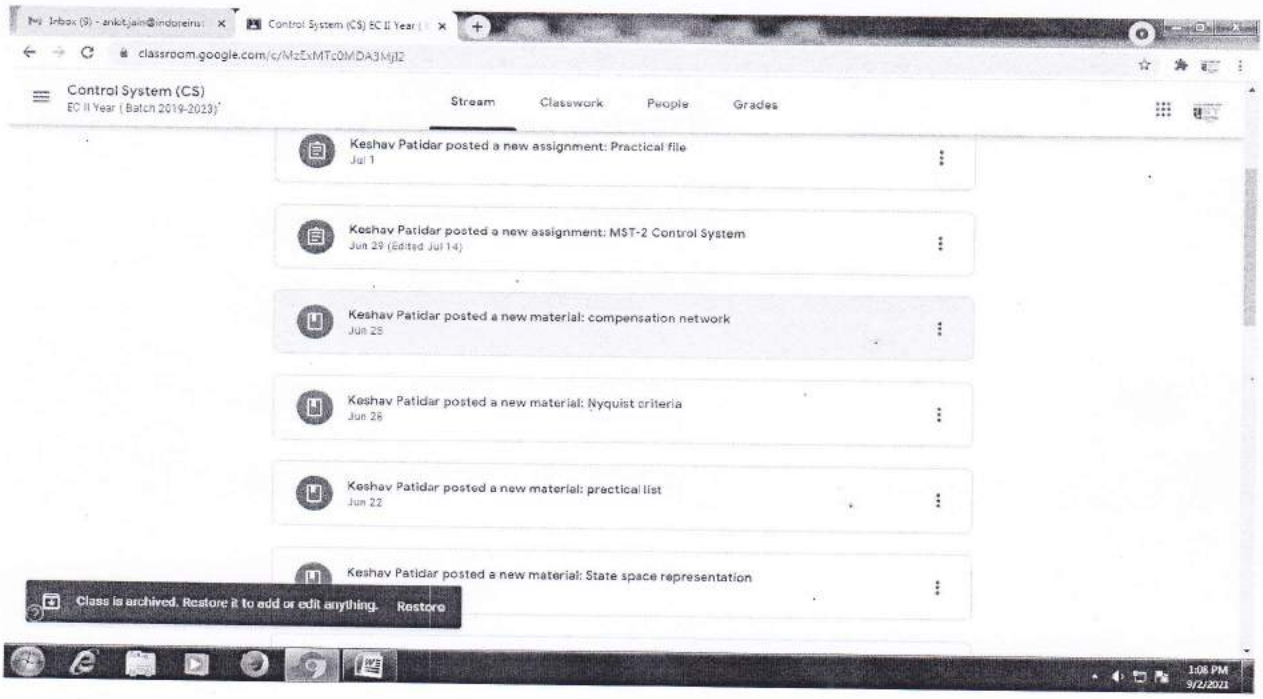
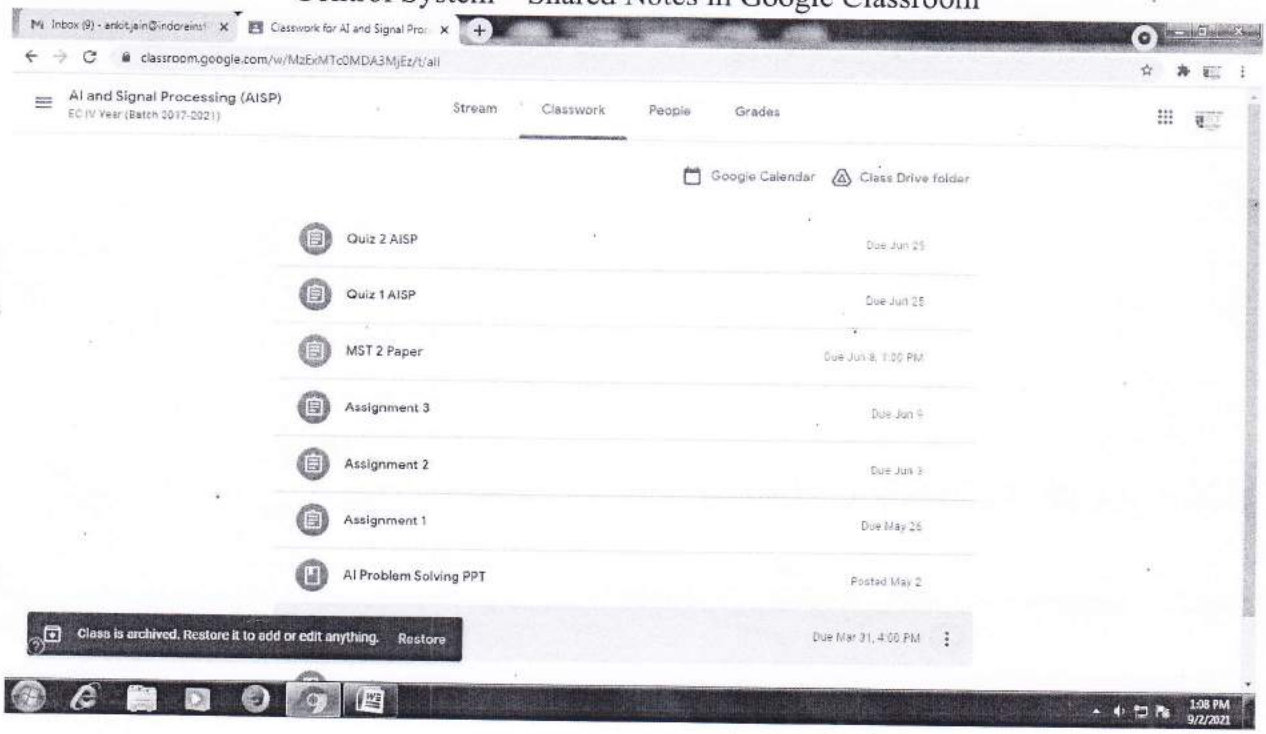
INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under section 2(f)



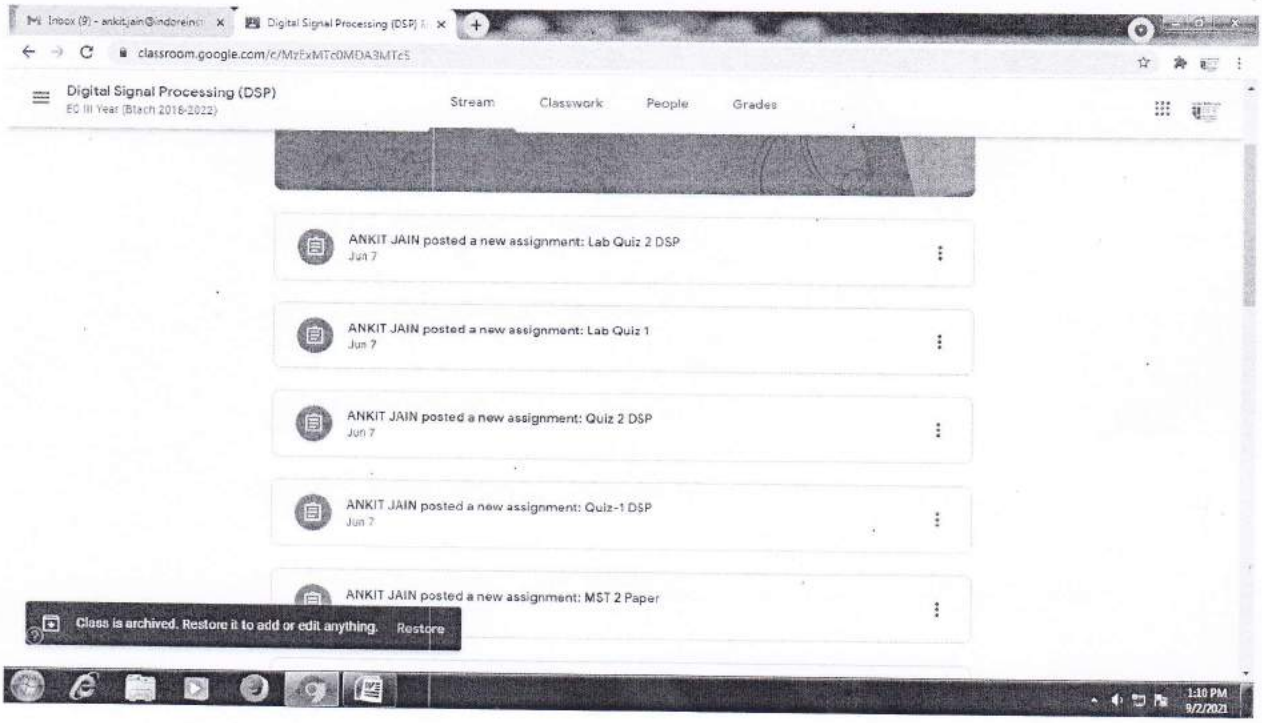
Control System – Shared Notes in Google Classroom



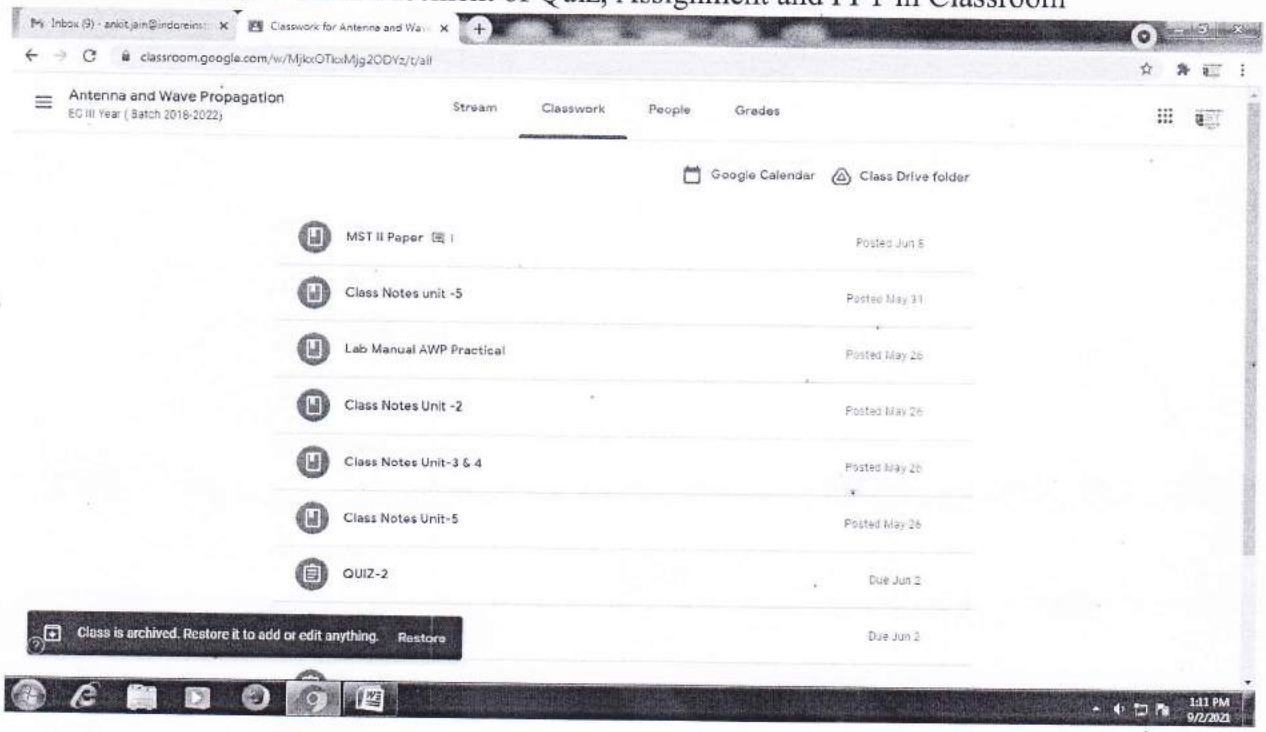
AI and Signal Processing – Shared Quiz, Assignment and PPT in Classroom

Indore Institute of Science and Technology IQAC

Indore Institute of Science & Technology INDORE



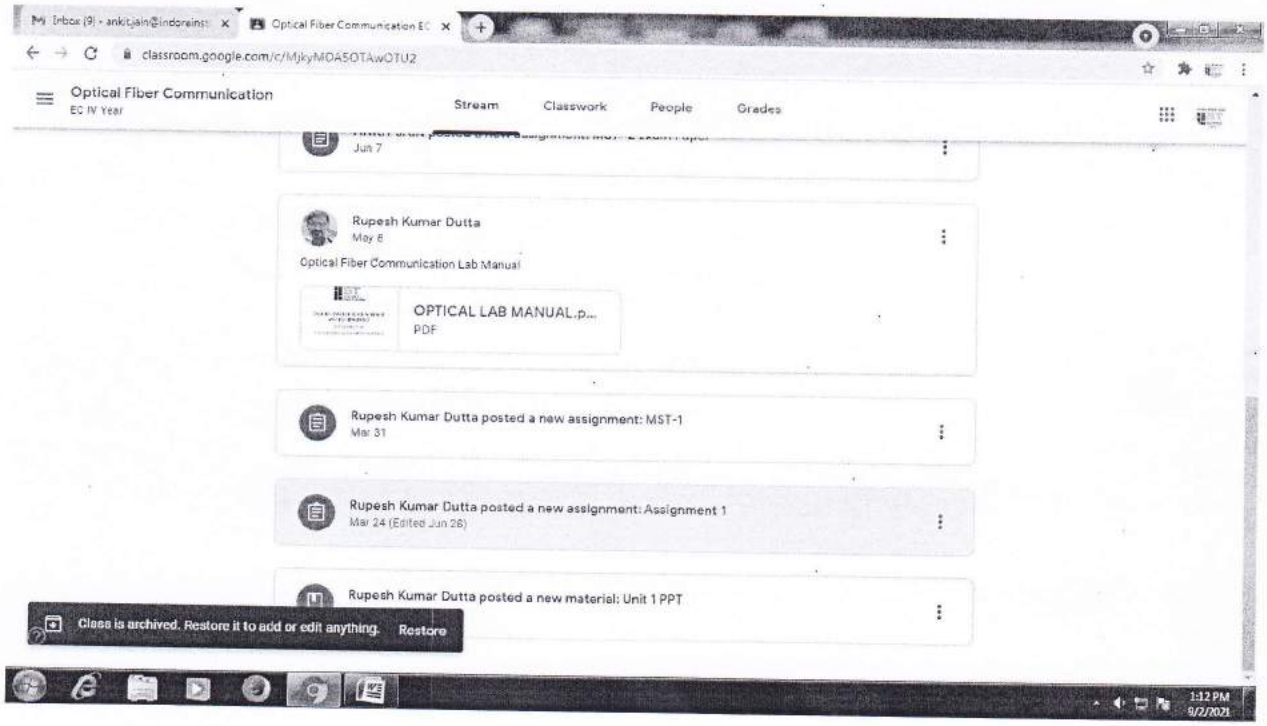
DSP – Announcement of Quiz, Assignment and PPT in Classroom



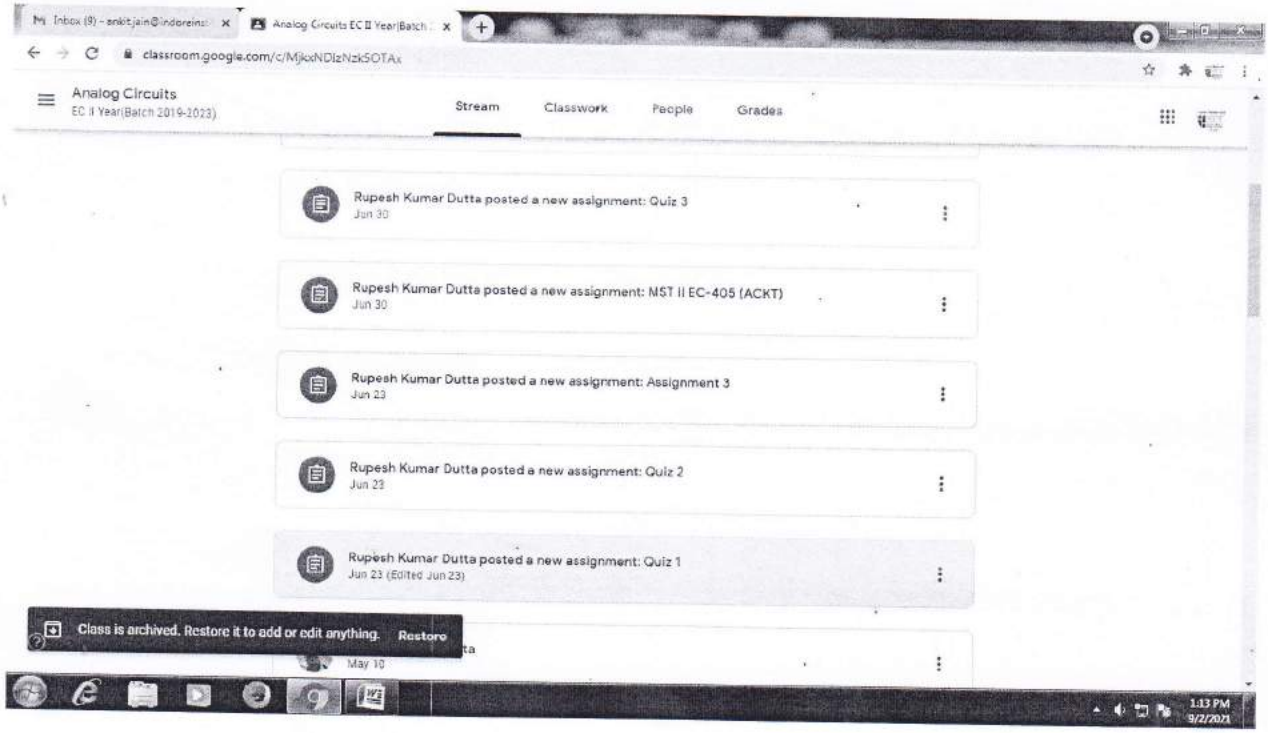
Antenna and Wave Propogation – Shared Quiz, Lab Manual and Notes in Classroom

IQAC

Institute of Science & Technology



Optical Communication – Shared PPT and Lab Manual in Classsroom



Analog Circuits – Announcement of Quiz, Assignment and PPT in Classroom

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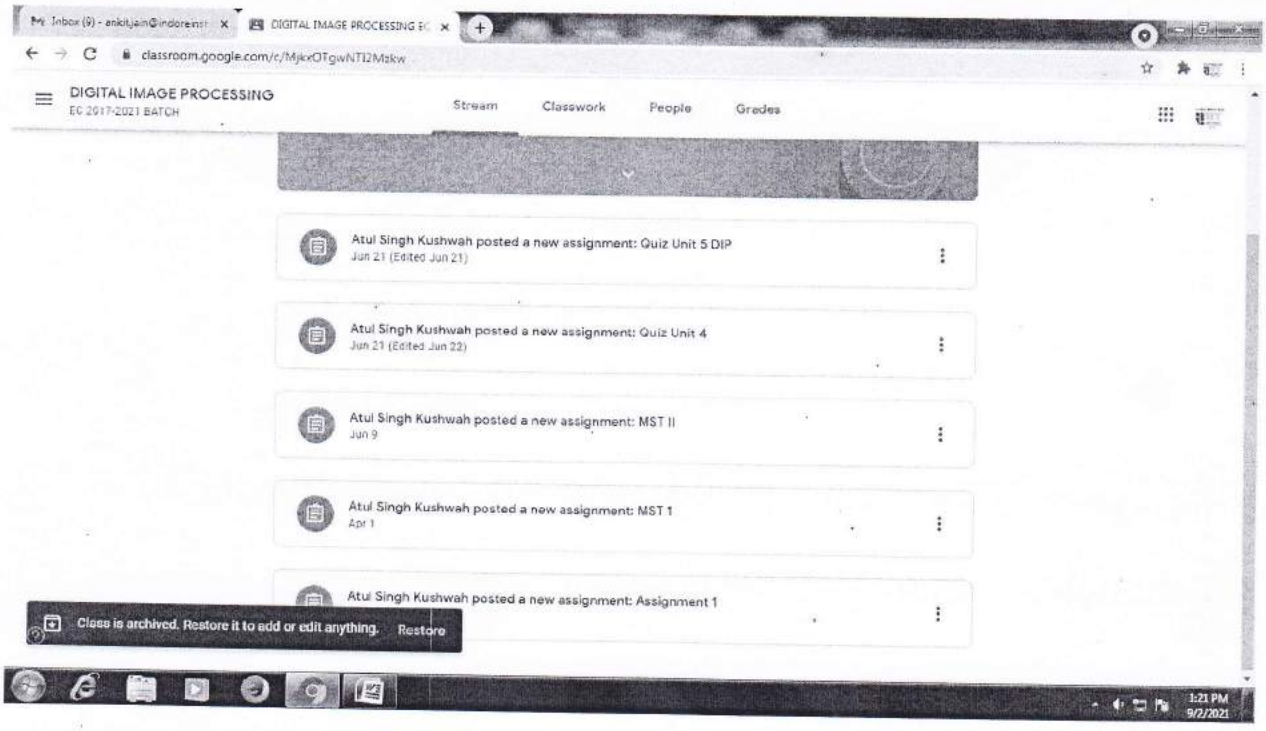
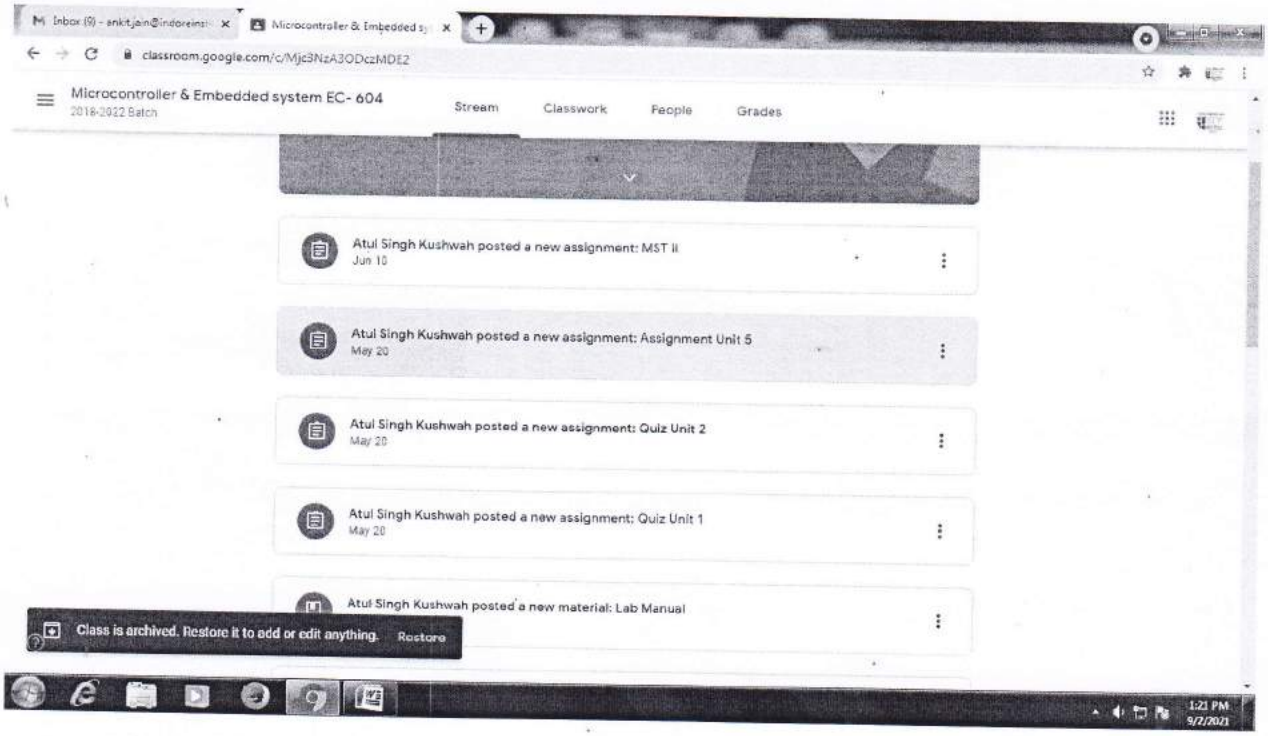


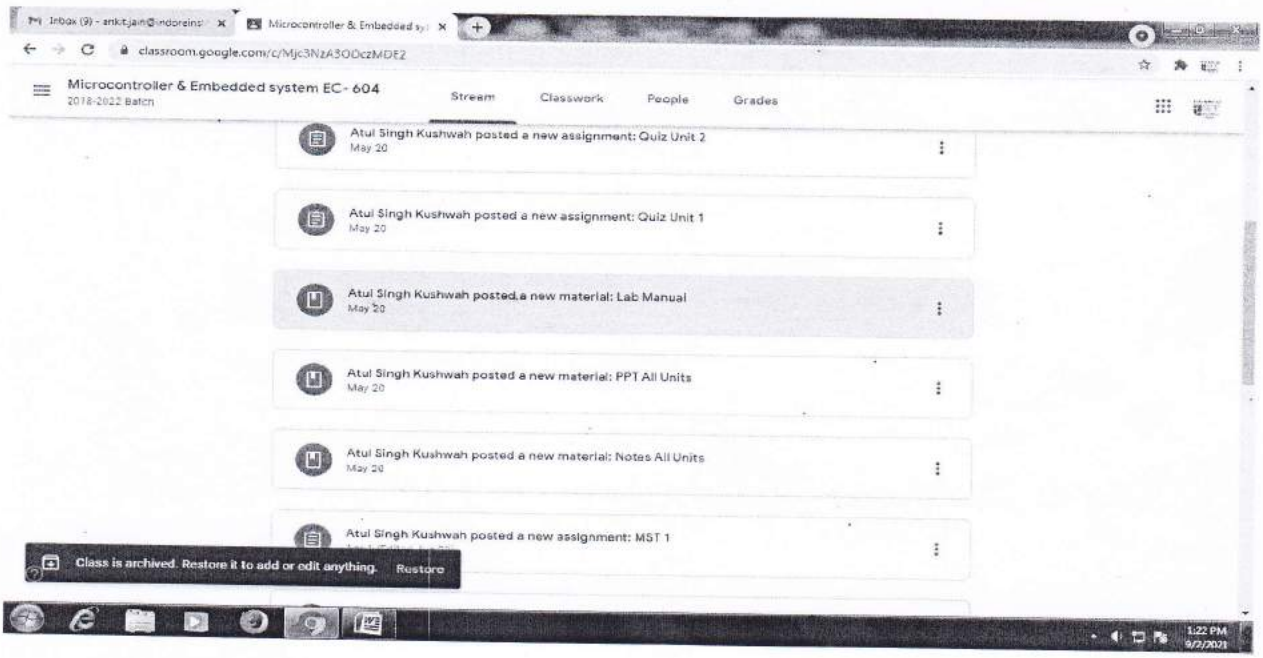
Digital Image Processing – Announcement of Quiz, Assignment and PPT in Classroom



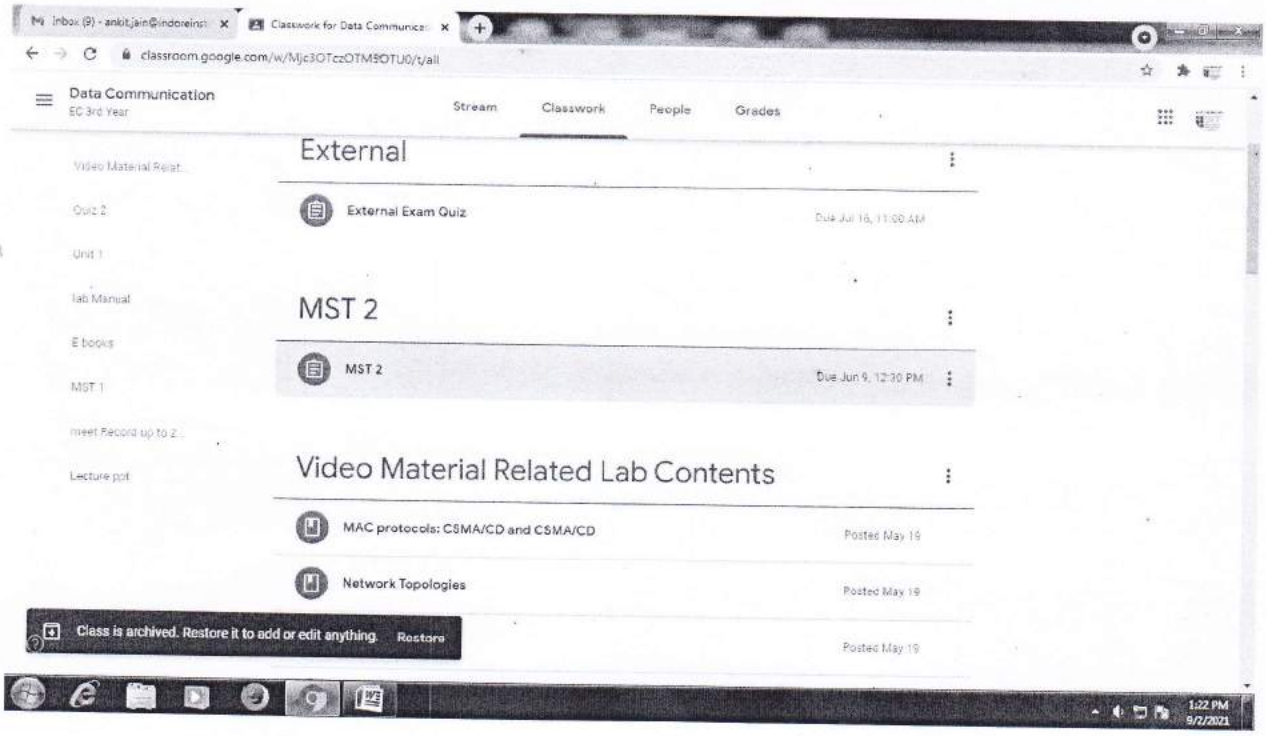
Microcontroller and Embedded System – Announcement of Quiz, Assignment and PPT in Classroom

Indore Institute of Science and Technology IQAC

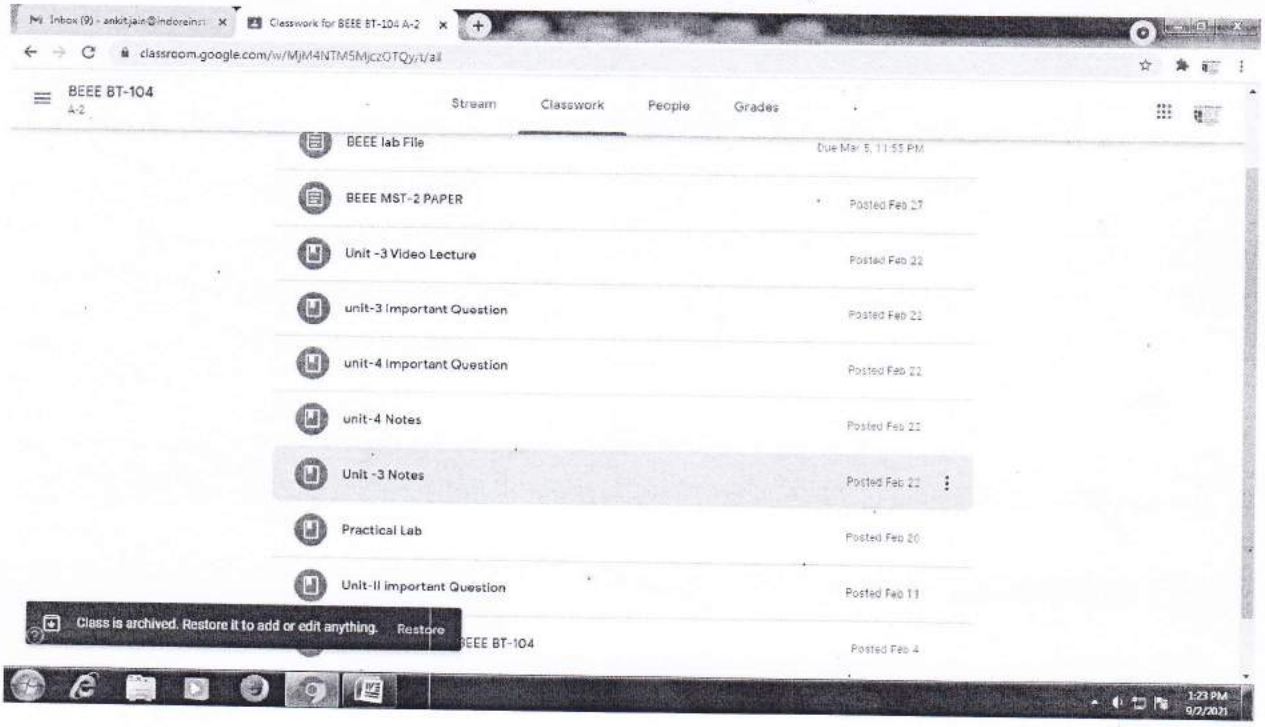
Indore Institute of Science & Technology



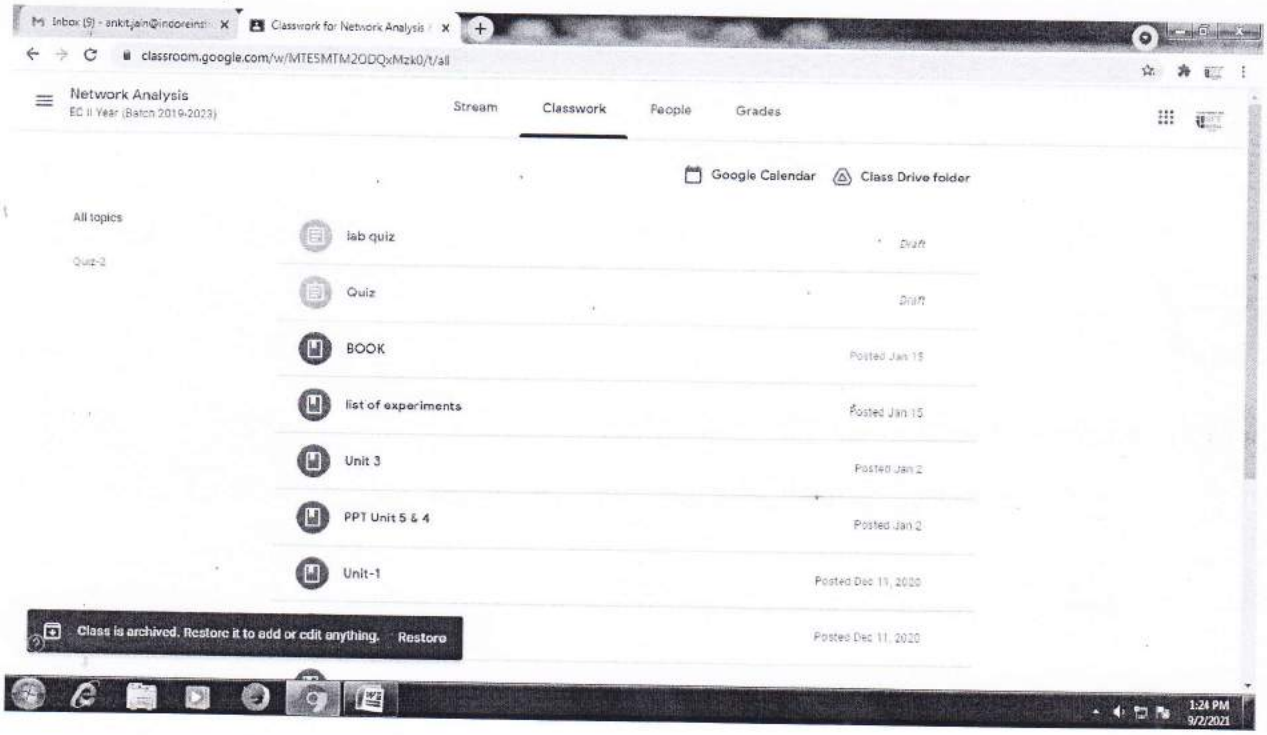
Microcontroller and Embedded System – Announcement of Lab Manual, PPT and Notes in Classroom



Data Communication – Video Material and External Exam Quiz in Classroom



BEEE – Video Lecture and Question Bank shared in classroom



Network Analysis – Books, PPT and Notes shared in classroom

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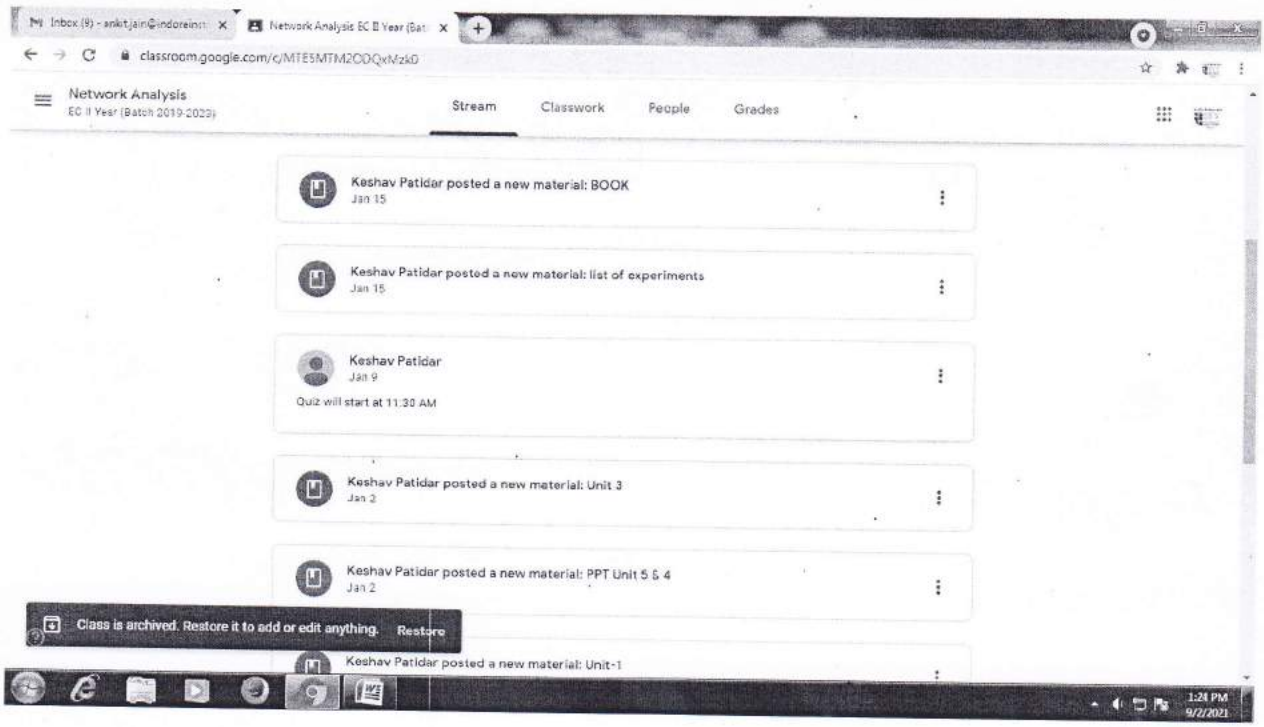
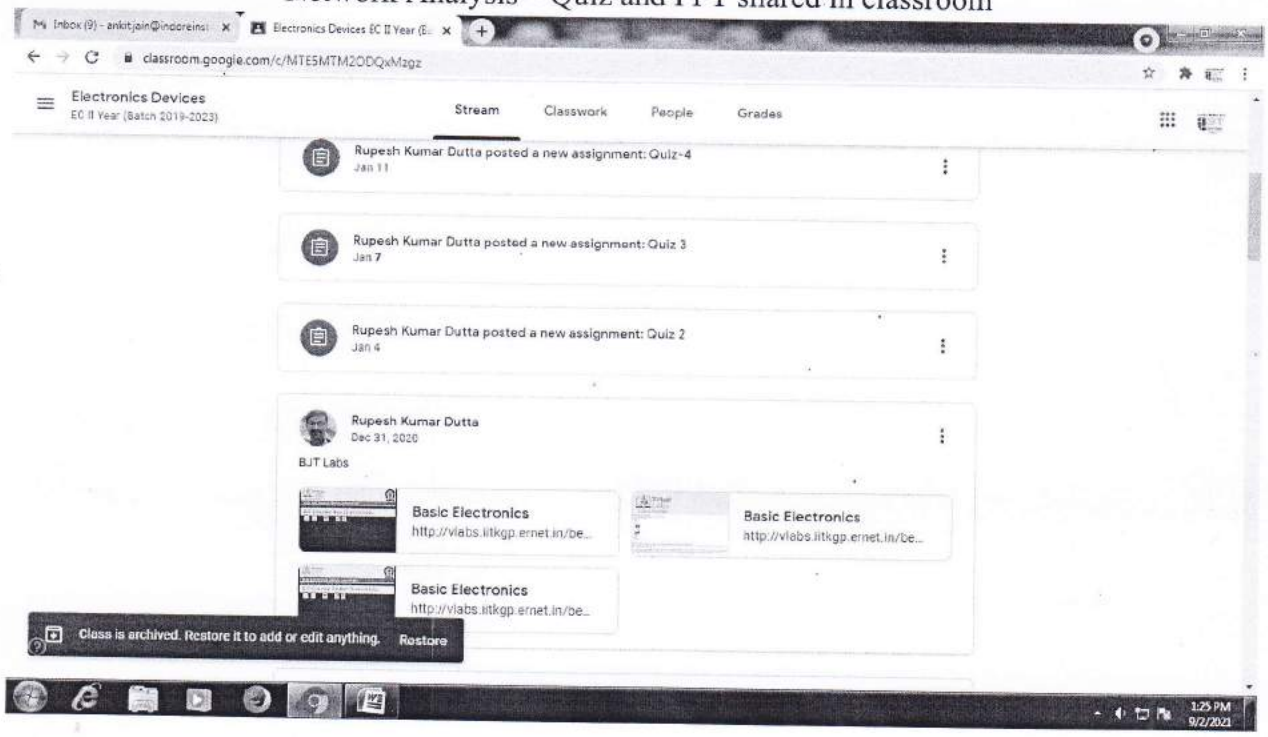
Institute of Science & Technology INDORE



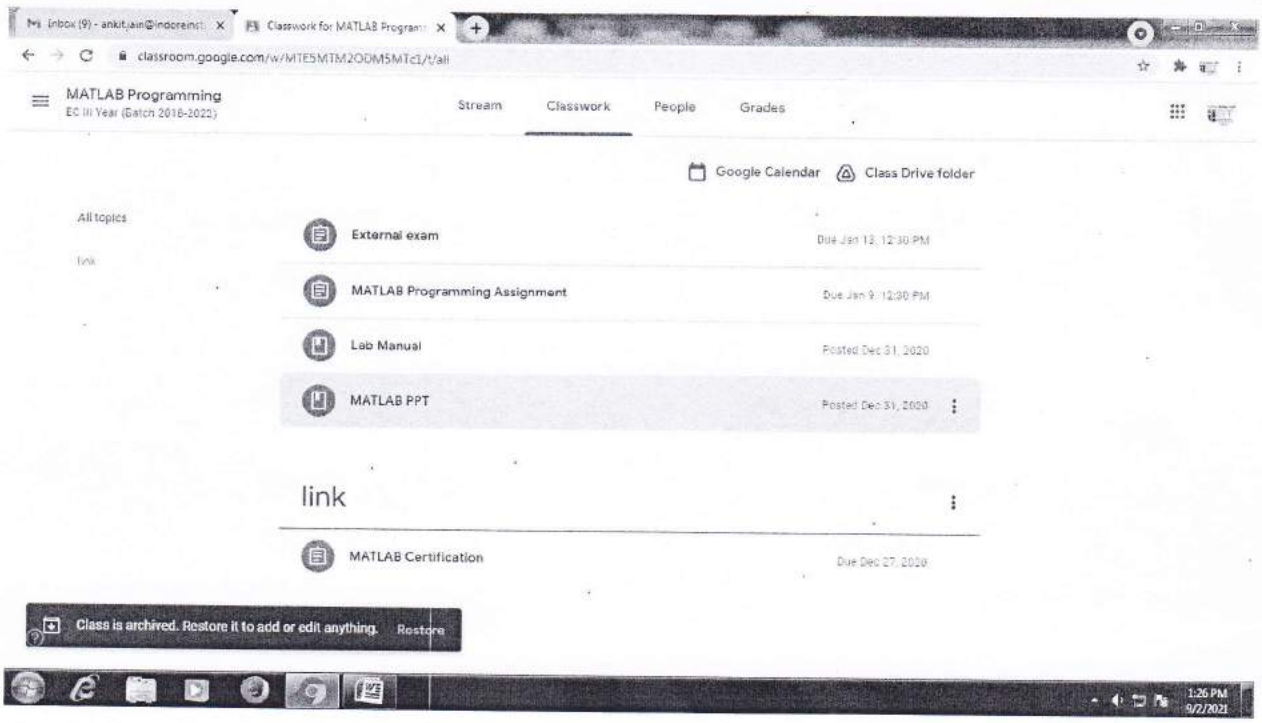
Network Analysis – Quiz and PPT shared in classroom



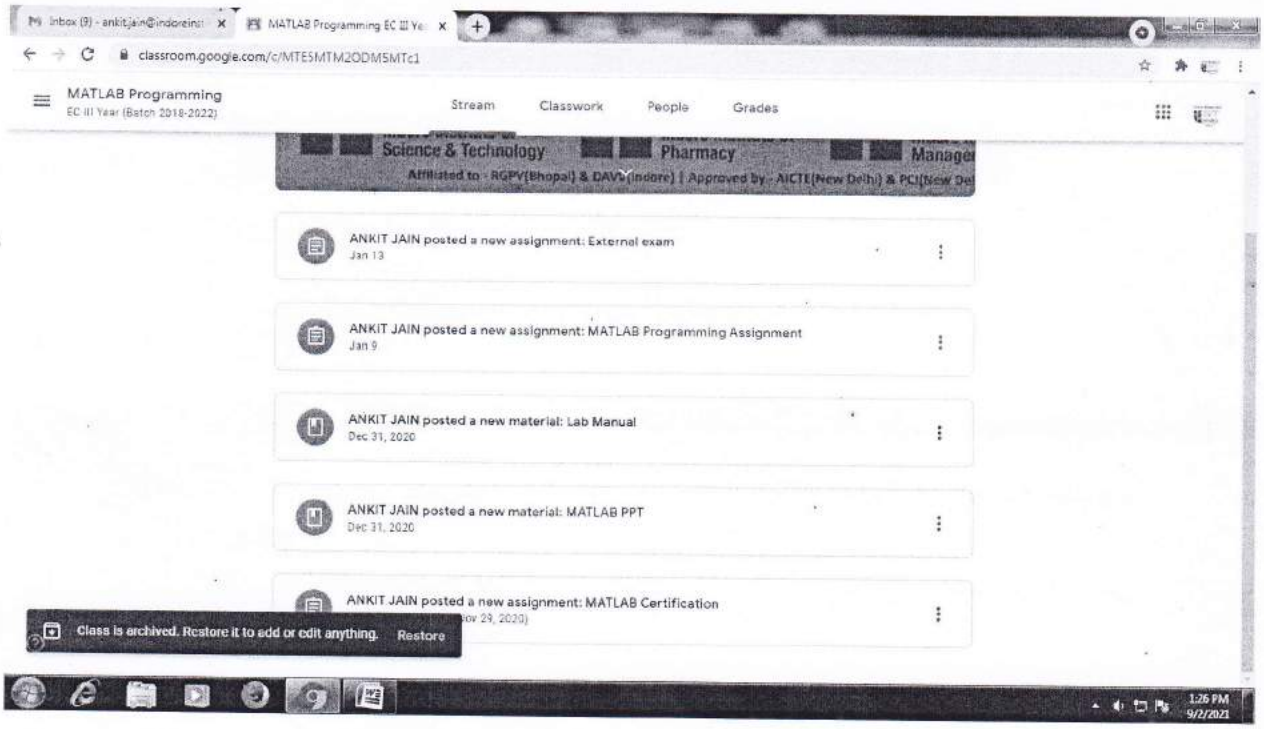
Electronics Devices – Video for Lab Work shared in classroom

IQAC

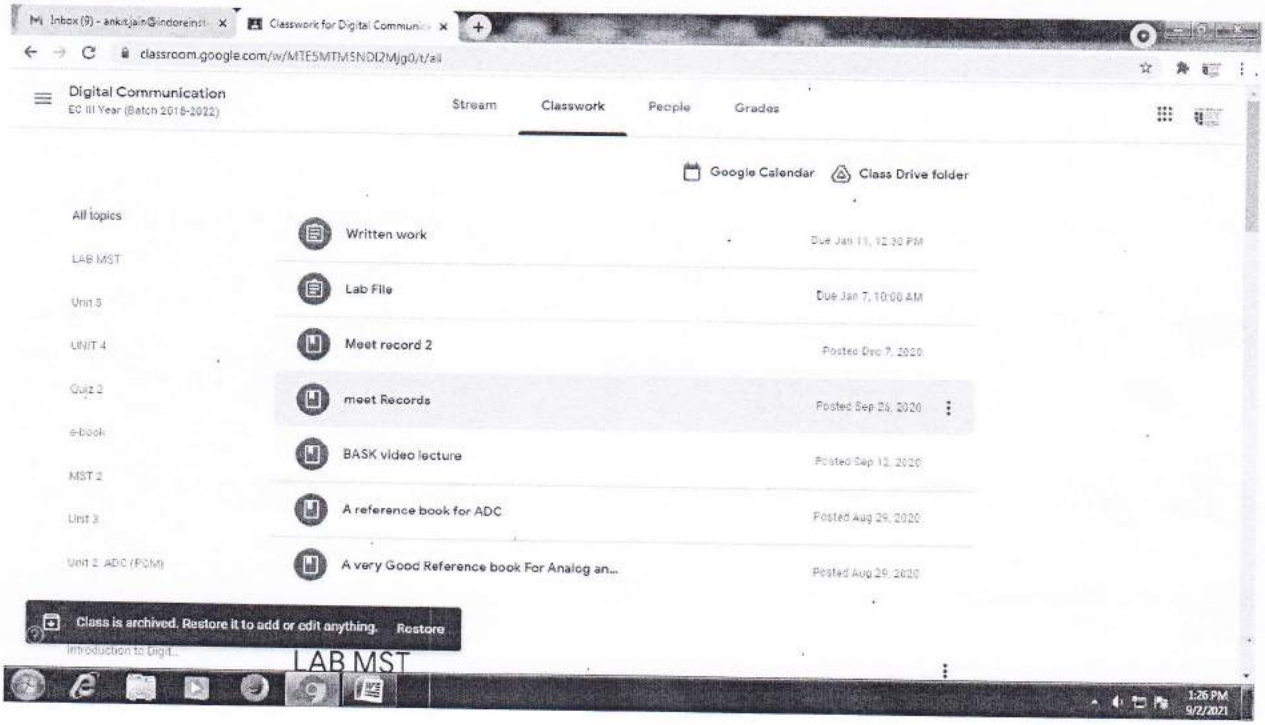
Institute of Science & Technology INDORE



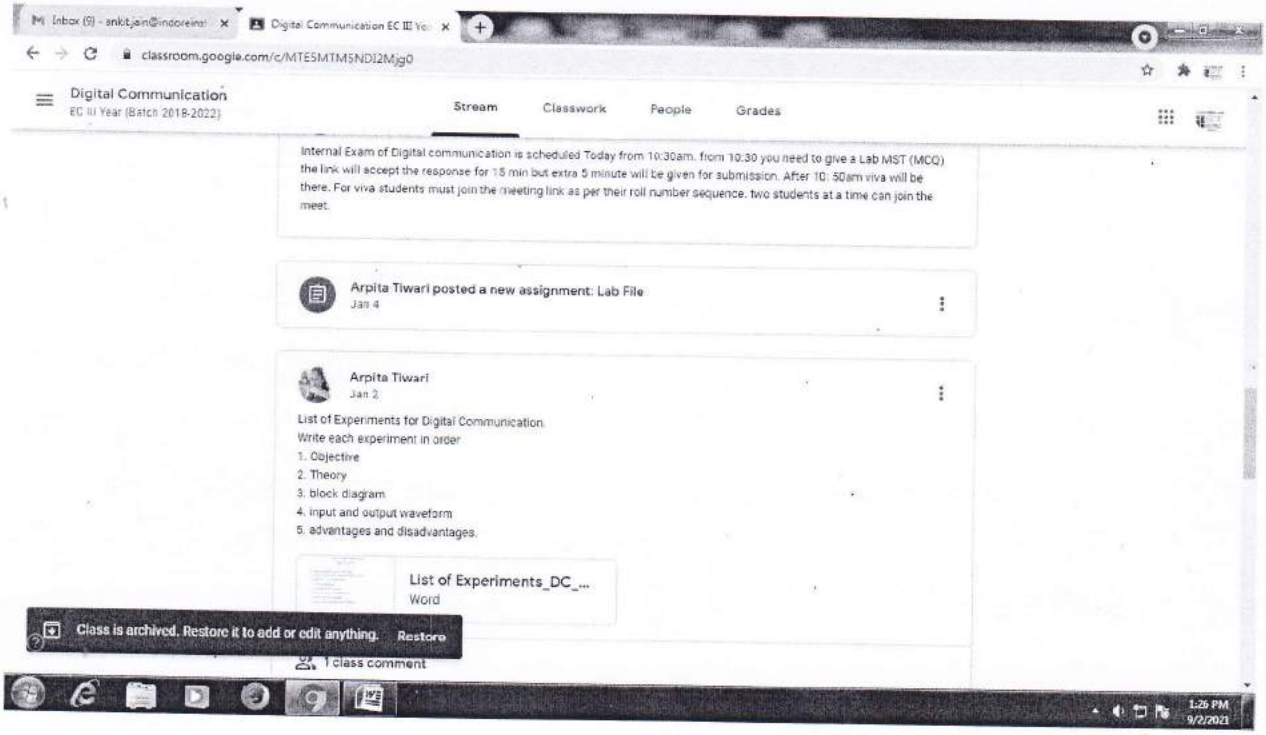
MATLAB – Lab Manual, External Exam Quiz and Assignment shared in classroom



MATLAB – Announcement of Lab Manual, PPT and exam quiz in Classroom



Digital Communication – Recorded Lectures shared in Classroom



Digital Communication – List of Experiment shared in Classroom

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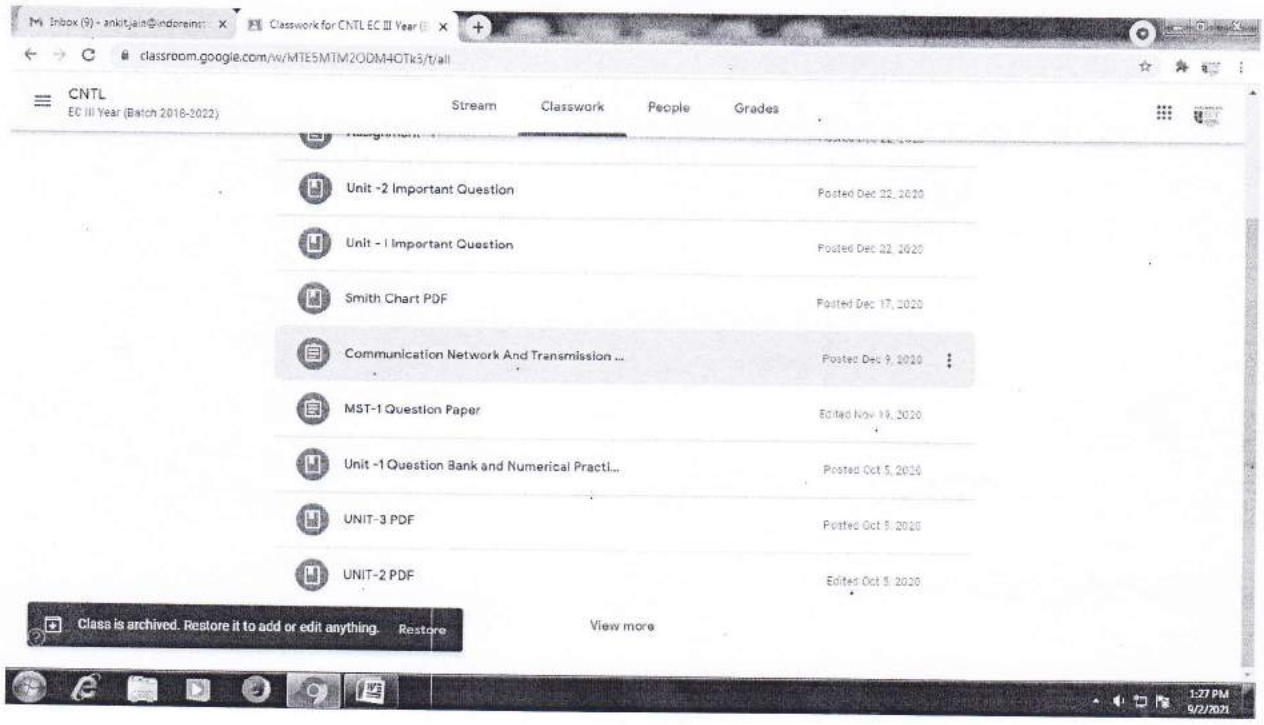
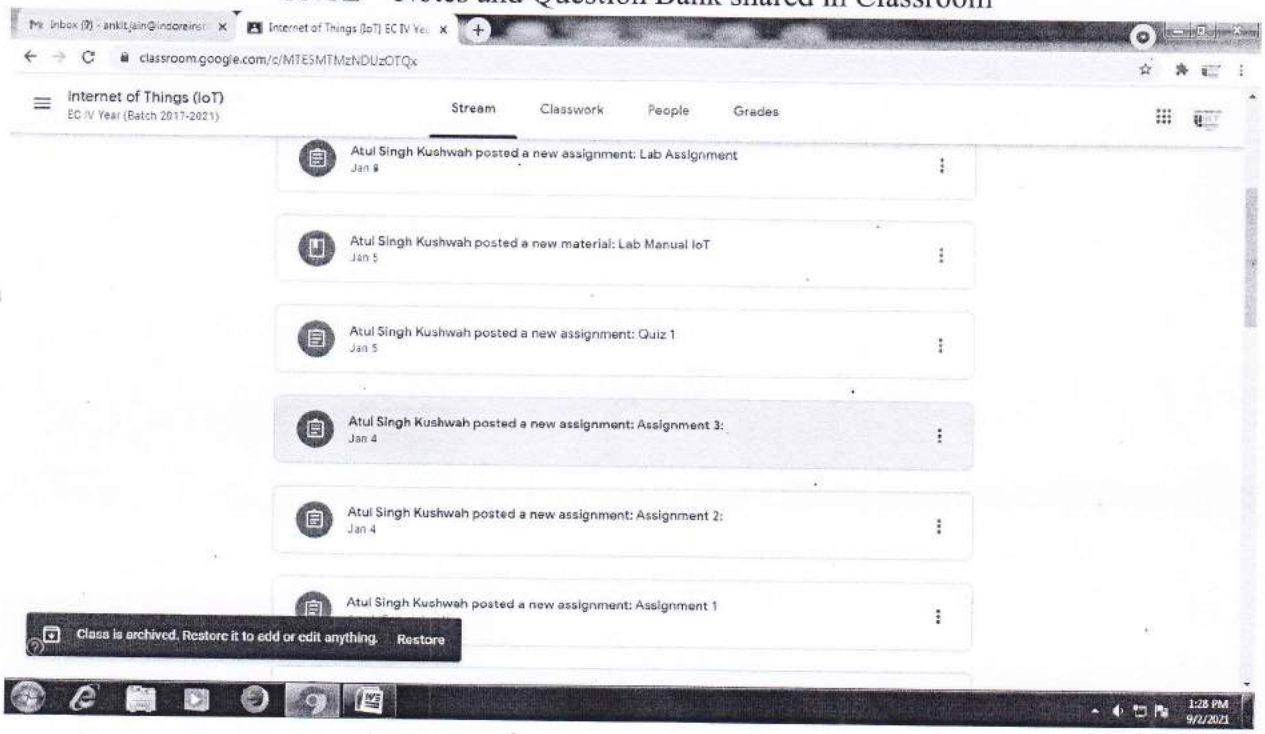
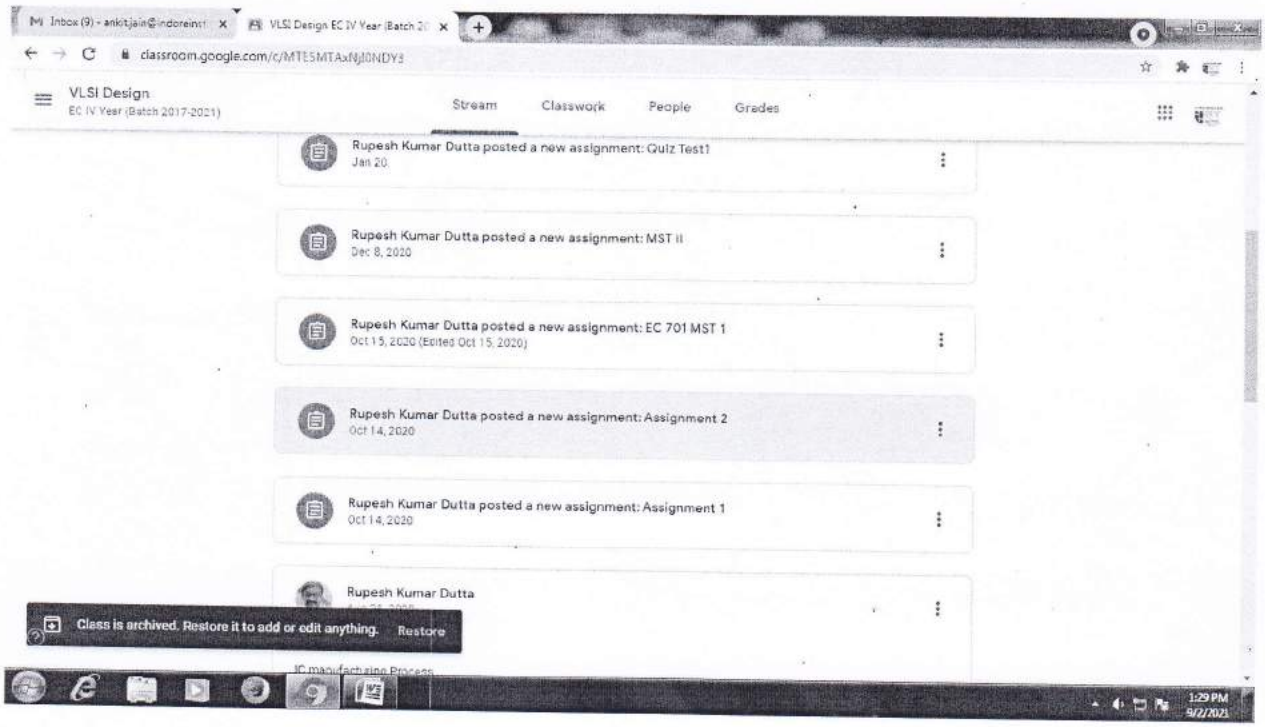


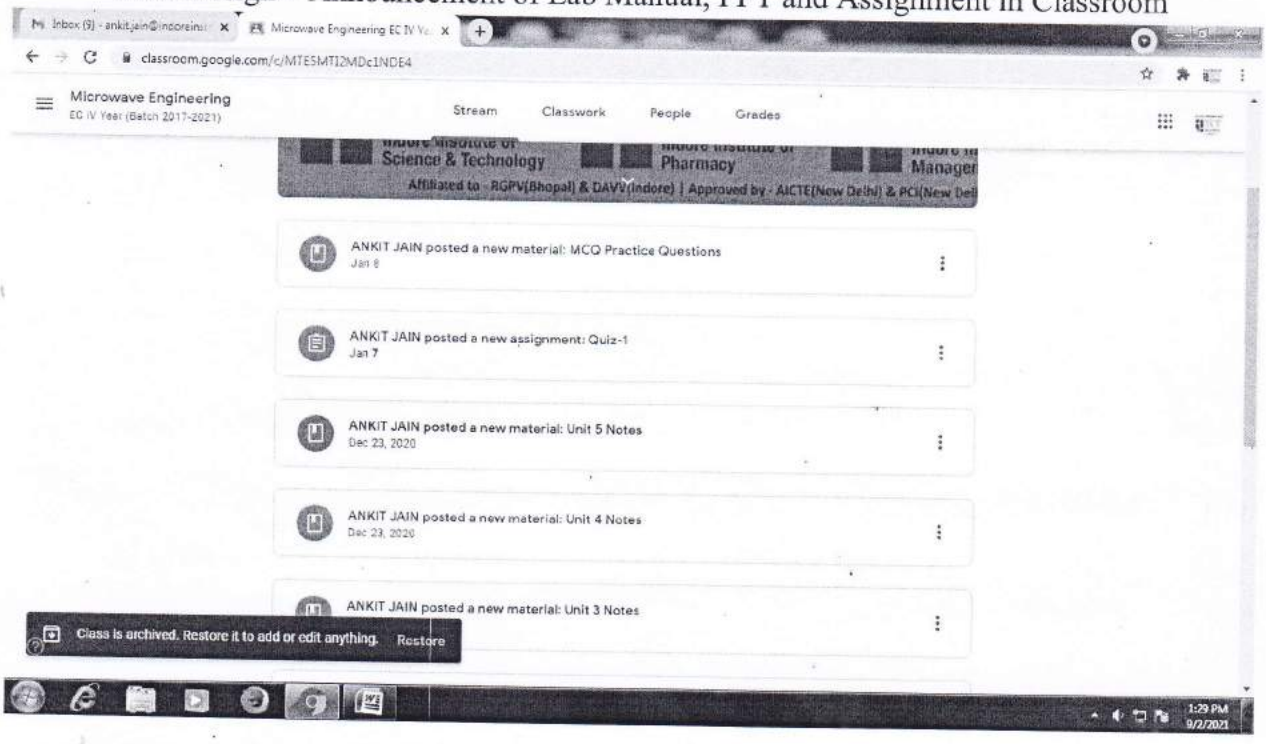
CNTL – Notes and Question Bank shared in Classroom



Internet of Things – Announcement of Lab Manual, PPT and exam quiz in Classroom



VLSI Design – Announcement of Lab Manual, PPT and Assignment in Classroom



Microwave Engineering – Announcement of Quiz, Notes and Assignment in Classroom

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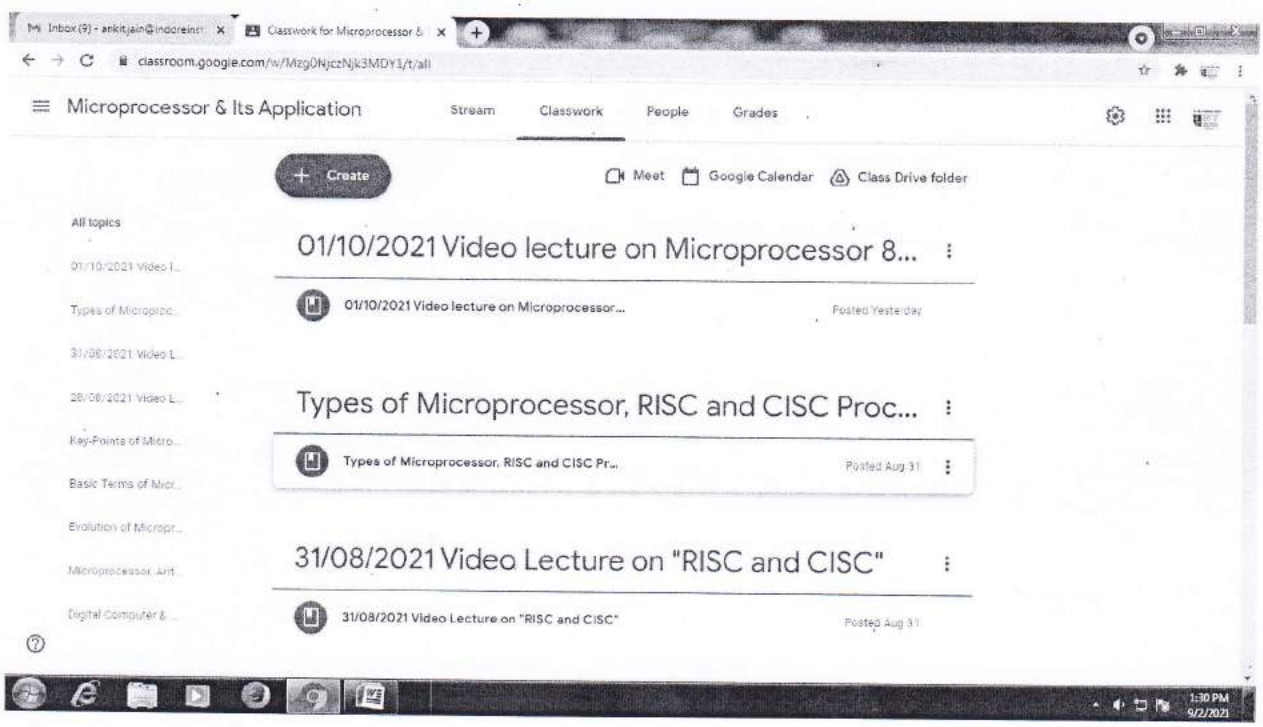
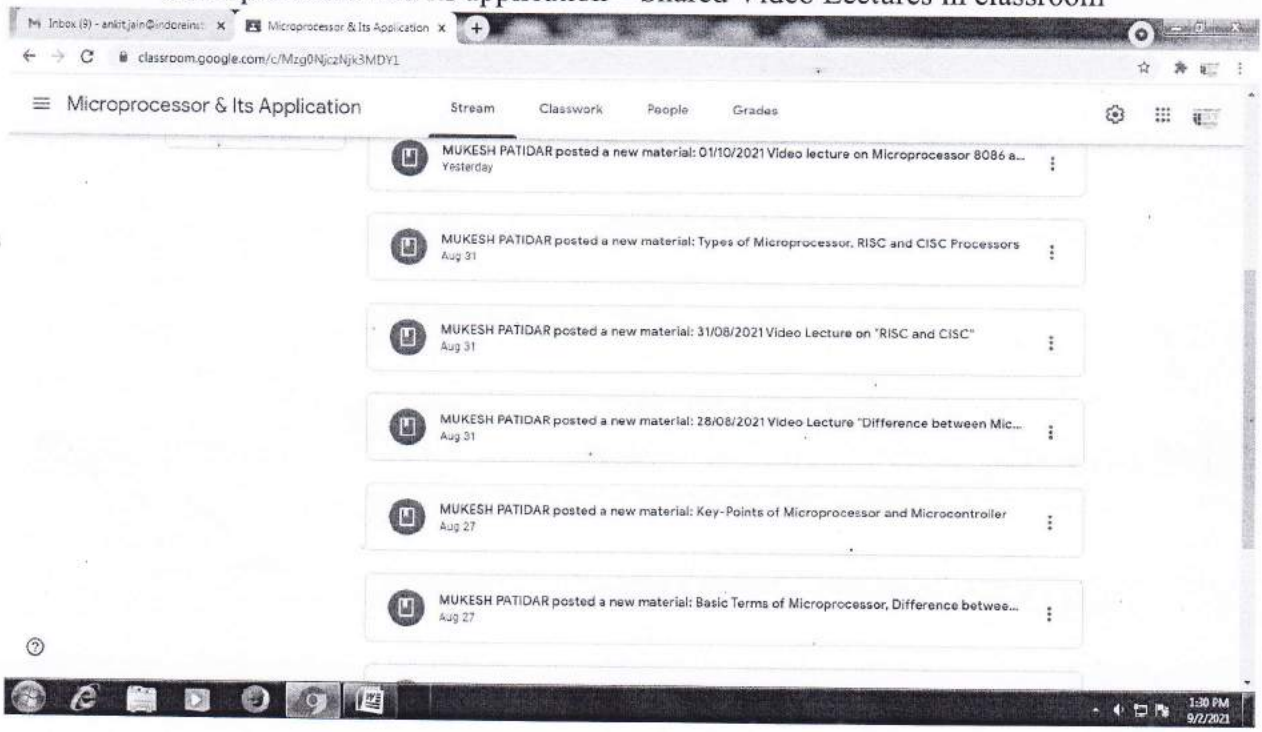
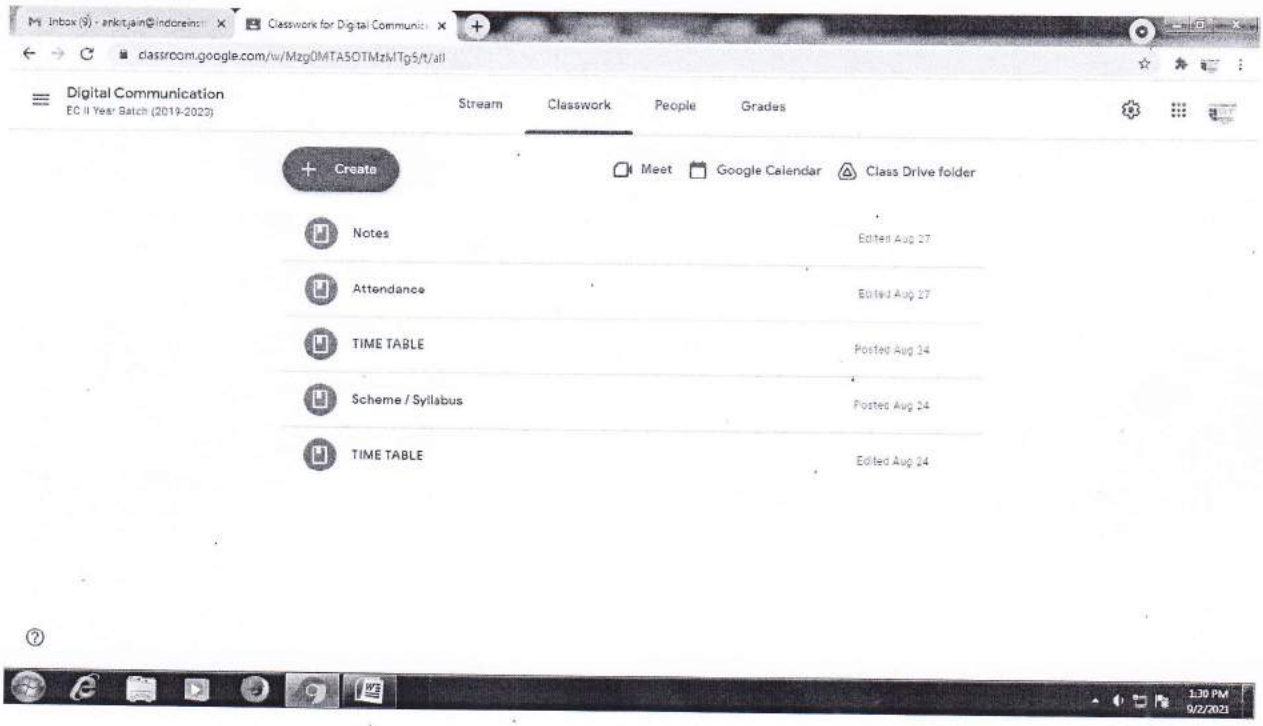


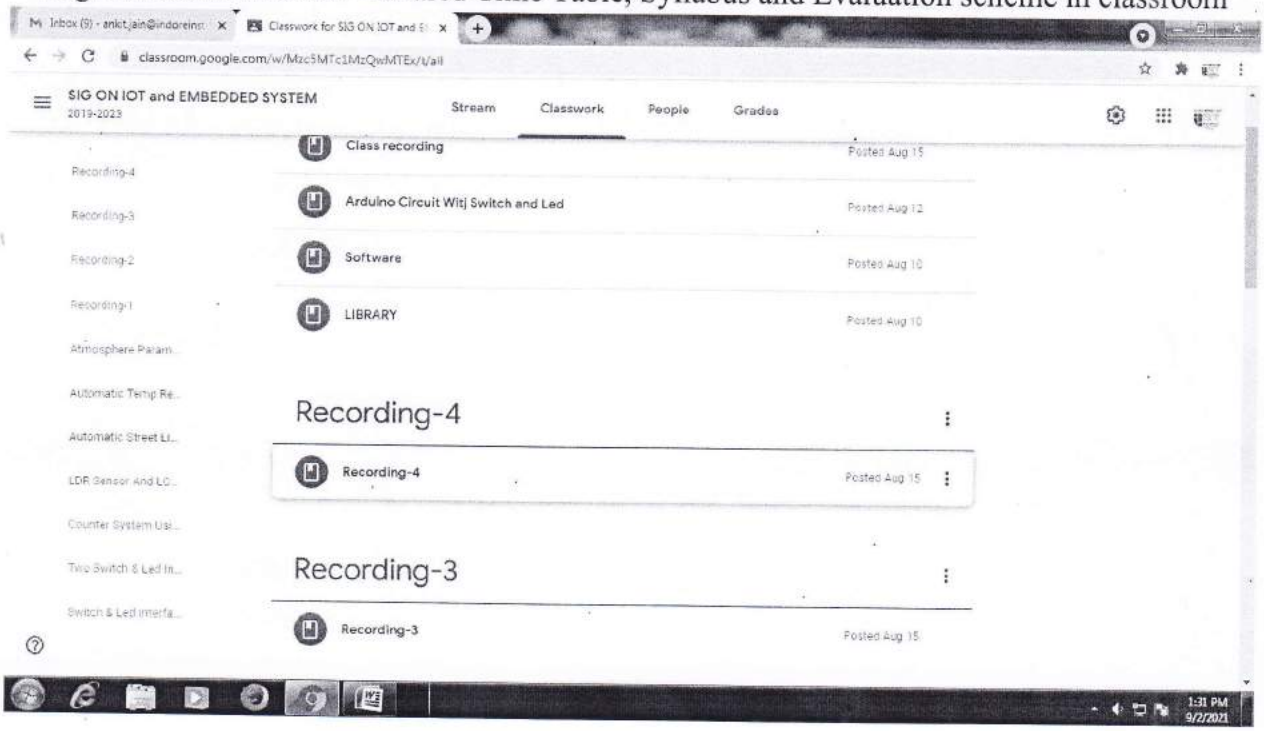
Microprocessor and its application – Shared Video Lectures in classroom



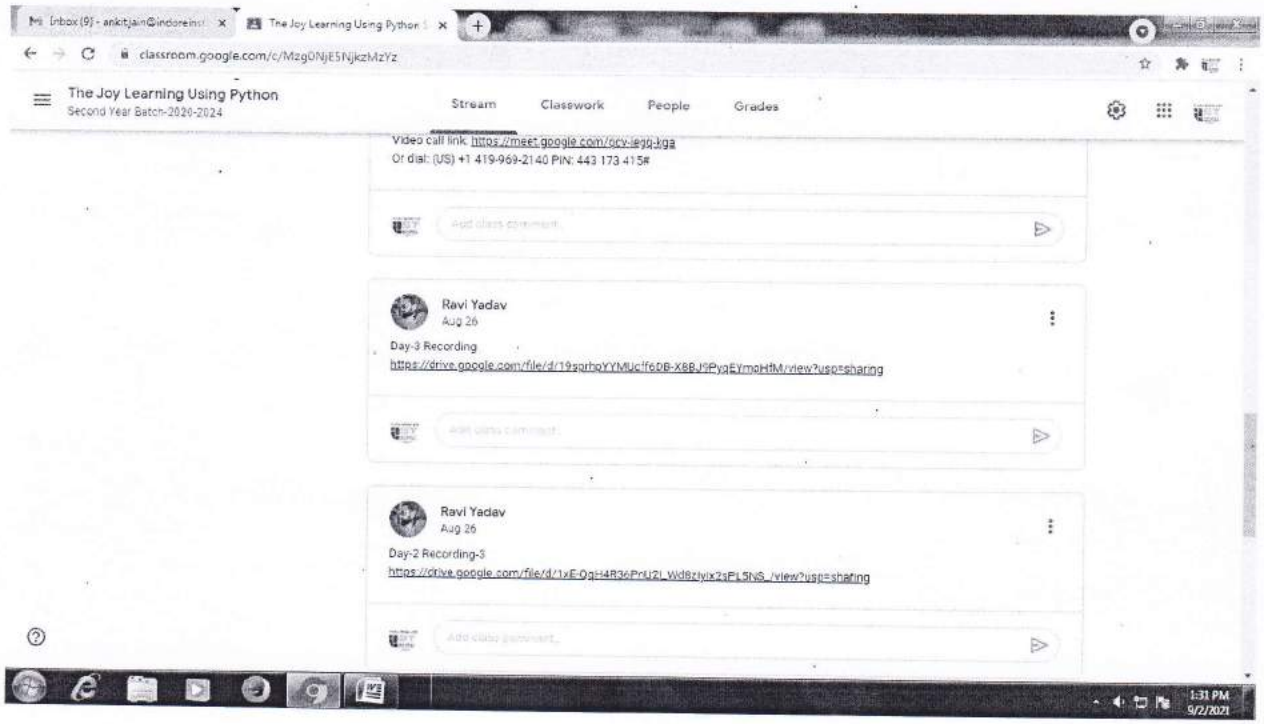
Microprocessor and its application – Announcement of Quiz, Notes and Assignment in Classroom



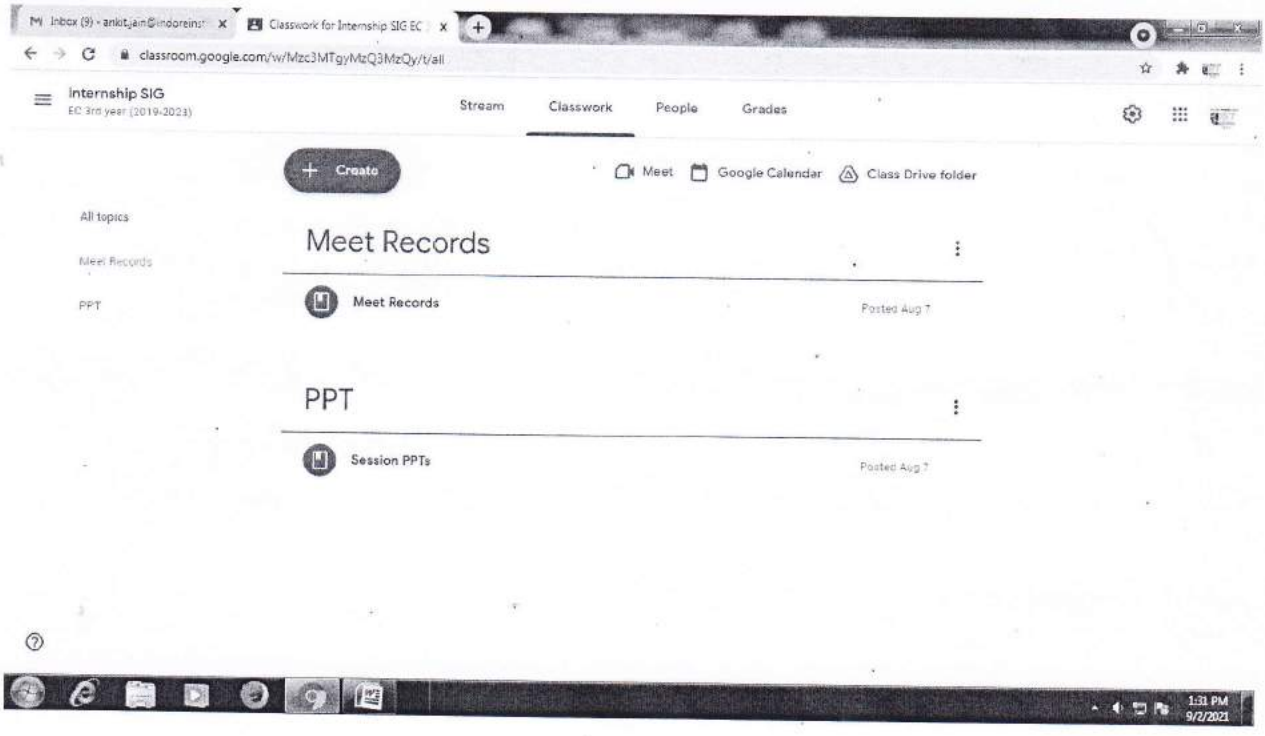
Digital Communication – Shared Time Table, Syllabus and Evaluation scheme in classroom



SIG on IOT and Embedded System – Recording of Lectures shared in Classroom



SIG on The Joy Learning using Python – Recording of Lectures shared in Classroom



Internship – Recording of Lectures and PPT shared in Classroom

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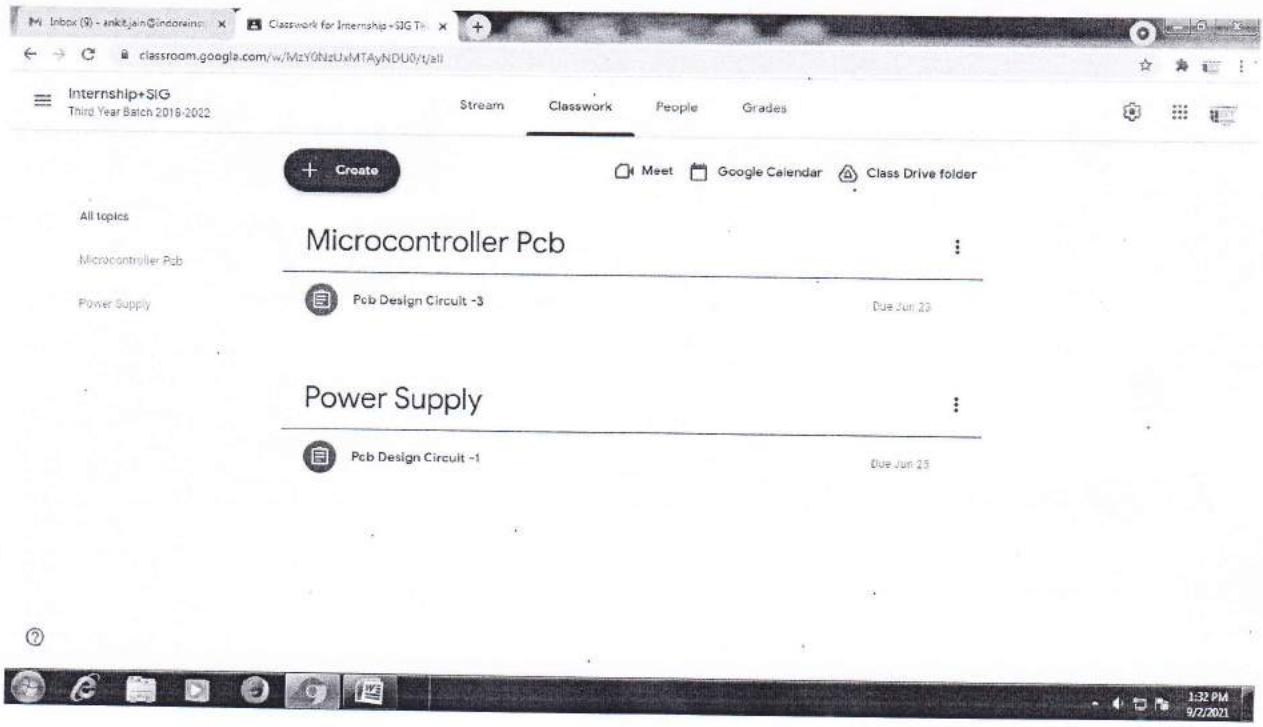
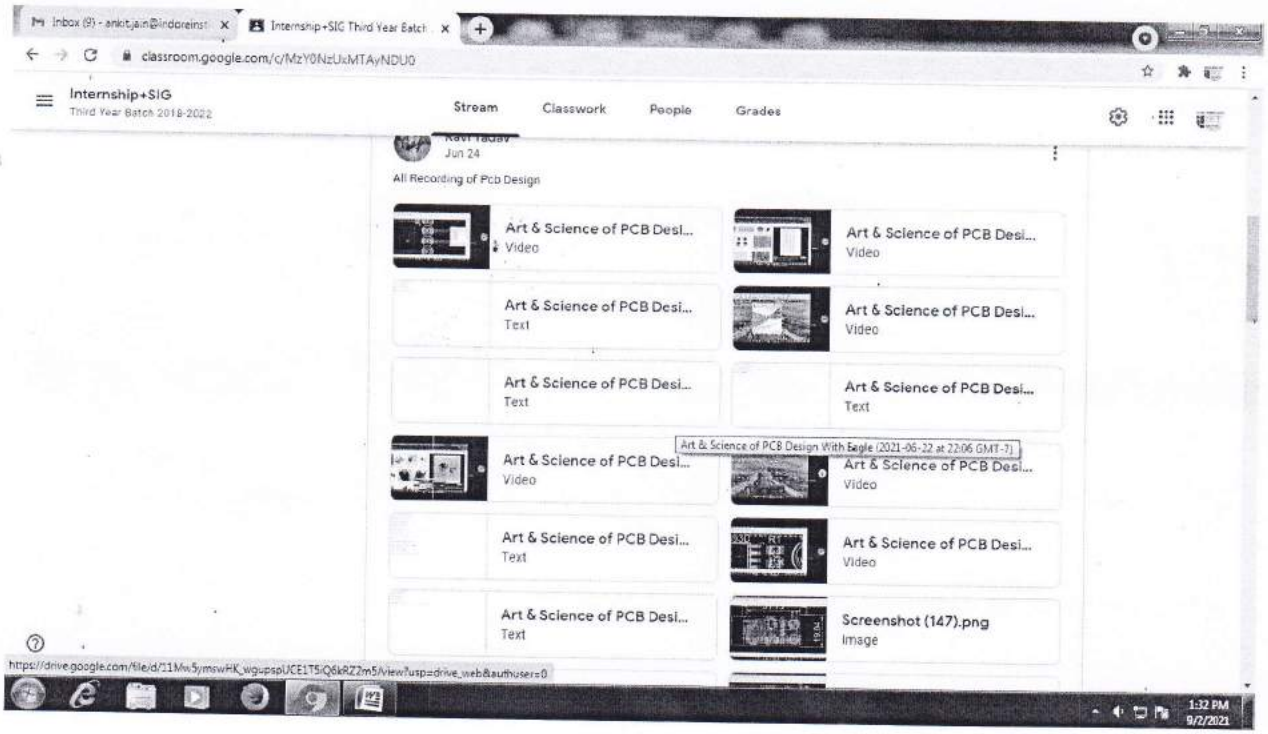
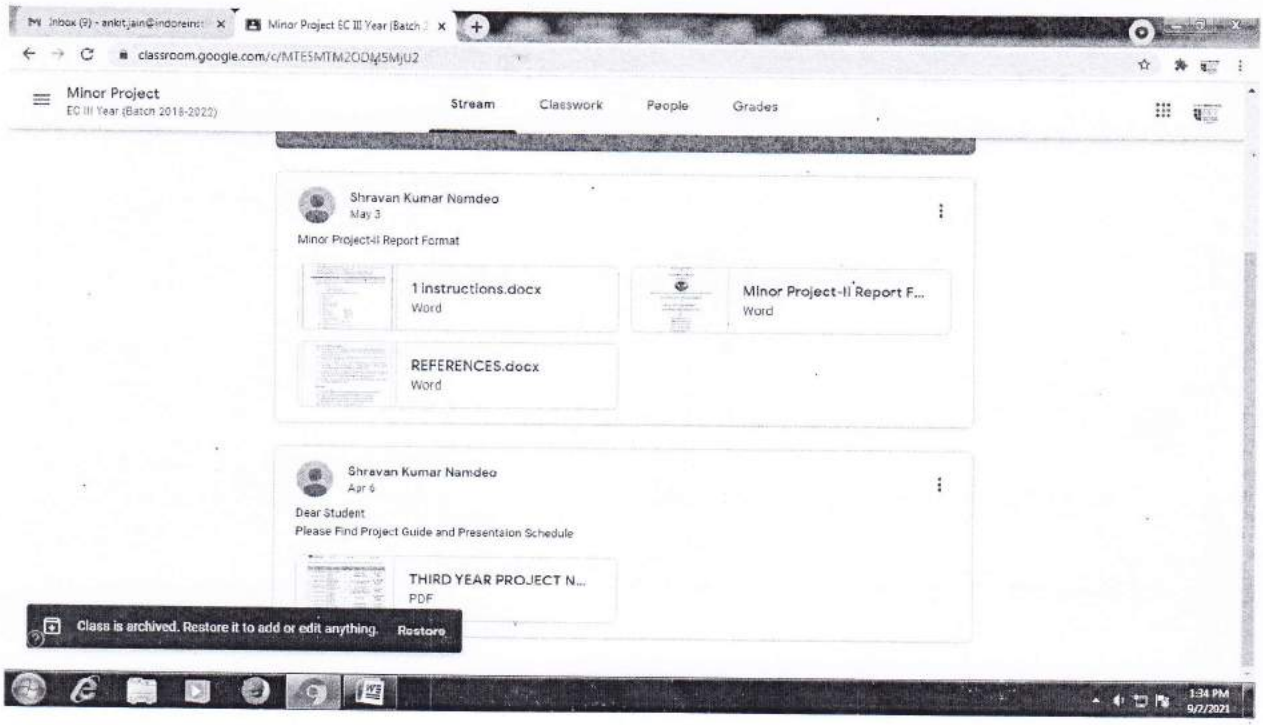


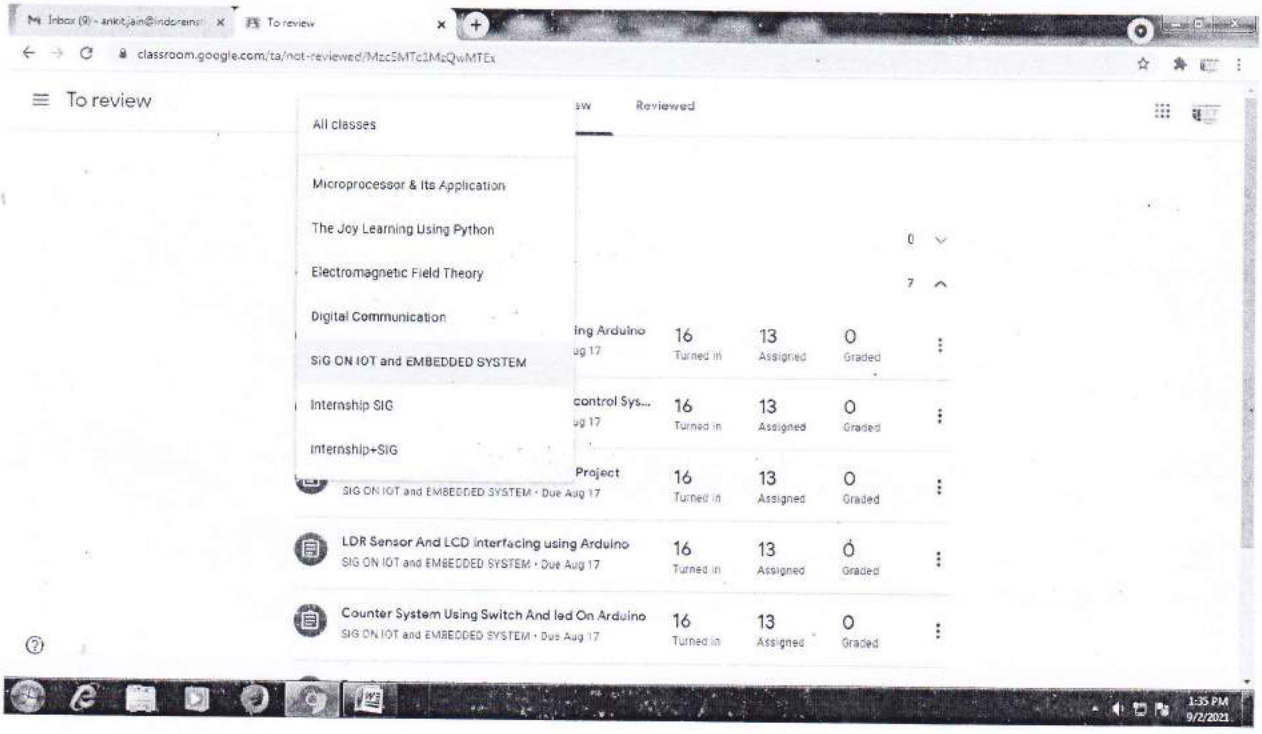
Internship – PCB Circuit Design shared in Classroom



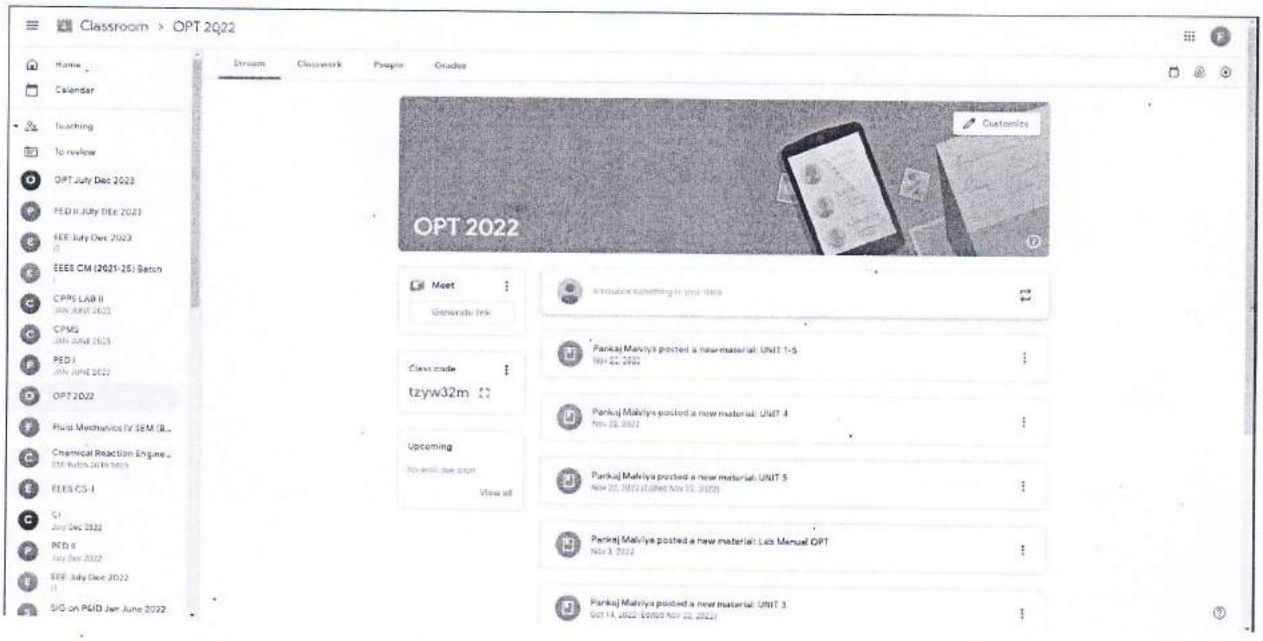
Internship – Recording of Lectures shared in Classroom



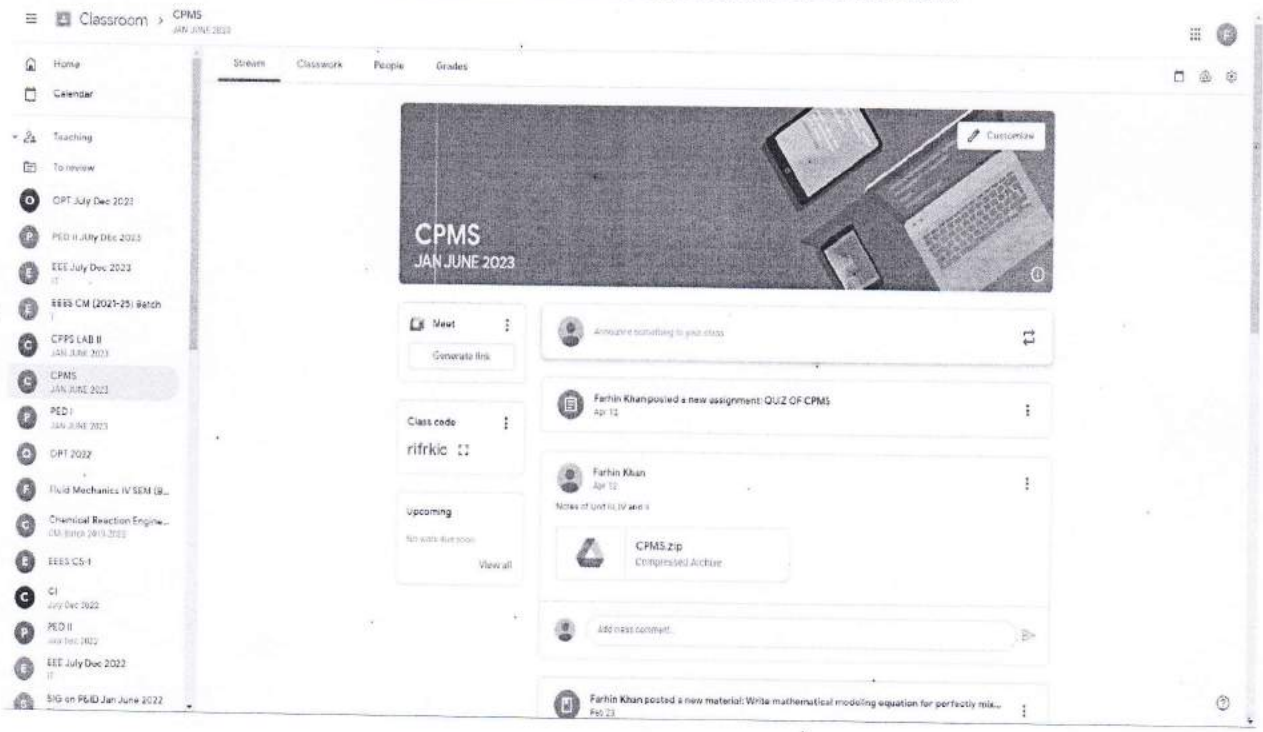
Minor Project –Instruction and Reference shared in Classroom



Review of Various Classes in Classroom



OPT –Notes and Lab Manual shared in Classroom



CPMS –Quiz and Notes shared in Classroom

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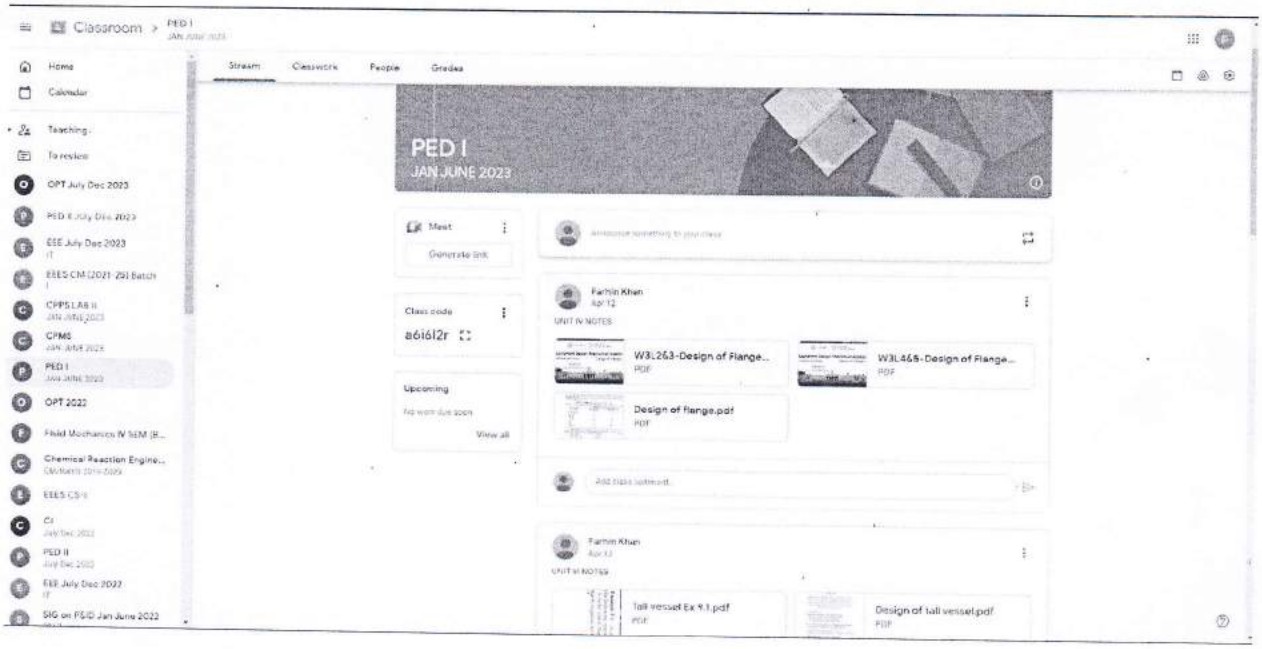
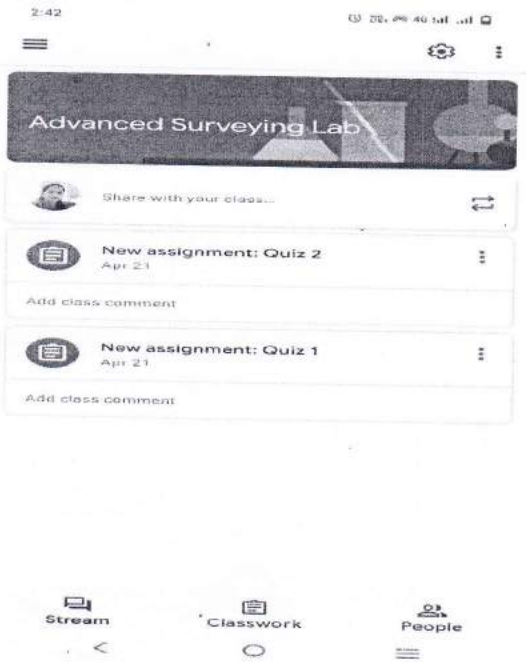
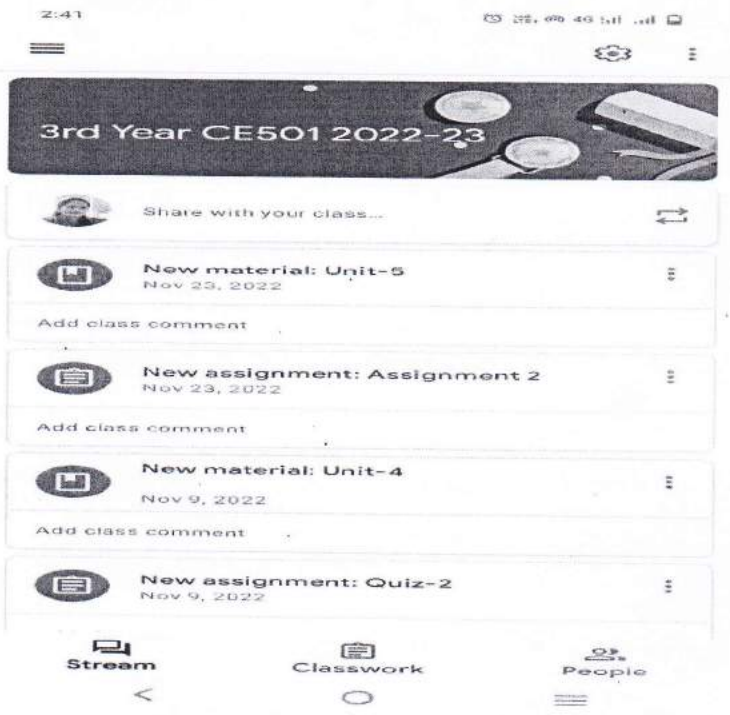


PED I –Notes shared in Classroom

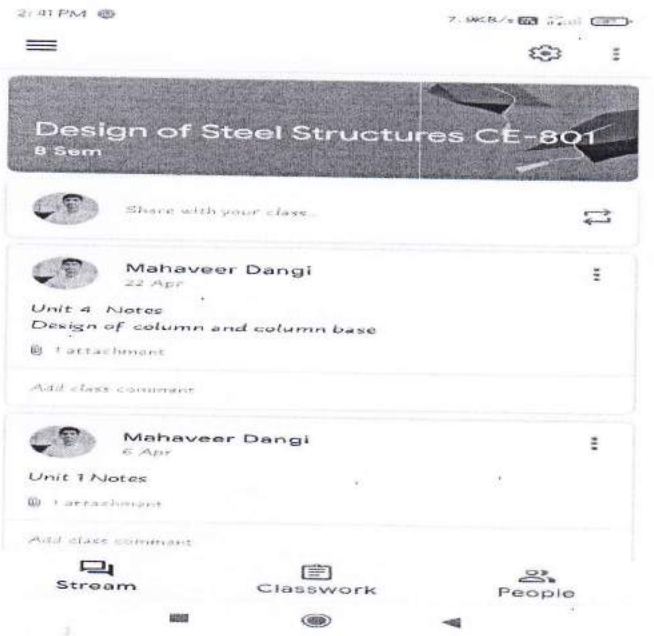


Advanced Surveying Lab –Quizs shared in Classroom

Fluid Mechanics –Notes and Quiz shared in Classroom



CE-501 –Notes, Assignment and Quiz shared in Classroom



Design of Steel Structures –Notes shared in Classroom

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Sample sheet from Mechanical Engineering Department for usage of ICT in teaching learning process

Department of Mechanical Engineering

S. No	Sem	Name of Subject	Subject Code	Name of Topic	Prepared By	NPTEL link	You Tube link	Virtual Link of l Experiment
1	VIII	Refrigeration &Air Conditioning	ME-801	Refrigeration and air conditioning	Mr. Lokesh	https://nptel.ac.in/courses/112105128	https://www.youtube.com/watch?v=7ZHnsz-yPzk&list=PL6HQVc8_tFGLTOEGDN_PYJSPEVia-vQoM&index=2	https://vmt-iitg.vlabs.ac.in/Wer_cooling_towerheory).html
2	VIII	Automobile Engineering	ME-802	Introduction of Chassis	Mr. Vipin Singh	https://nptel.ac.in/courses/107106088	https://www.youtube.com/watch?v=ilh8bnzvm8Q&list=PLSJZETVyEssmc2CMU4E4c7TlA0gvwhS10	NA
3	VIII	Entrepreneurship and Management Concepts	ME-803	Energy Conservation, management & Audit	Mr. Umesh	https://nptel.ac.in/courses/127105007	https://www.youtube.com/watch?v=ICYqc5_mJ5g	NA
4	VII	Heat and Mass Transfer	ME 701	Understanding Heat Transfer, Conduction, Convection and Radiation	Mr. Lokesh Arg.	https://nptel.ac.in/courses/112101097	https://www.youtube.com/watch?v=wbOWsYtoy3E&list=PL6HQVc8_tFGKNmq--LhvEHefPgUreAqqX_	https://vlab.amritadu/?sub=1&brch=94&sim=801&cnt4
5	VII	Advance Machining Processes	ME 702	additive manufacturing	Mr. Navdeep	https://nptel.ac.in/courses/112103202	https://www.youtube.com/watch?v=1MkWjVjNFhY&list=PLYY-vaDZXAyxyB8EY_-4FYfAXfHeNY0Li	https://3dp-dei.vlabs.ac.in/exp simulation-of-polar-machine/simulatio.html

6	VII	Operation Research and Supply Chain	ME 703	Supply-Chain Management	Mr. Vipin Singh	https://nptel.ac.in/courses/110106045	https://www.youtube.com/watch?v=QW3yPIVuaa4&list=PL6HQVc8_tFGLsNBNWPjHkXAT1hVKjbfd8	NA
7	VI	Thermal Engineering and Gas Dynamics	ME601	**INTRODUCTION AND BASIC CONCEPTS of TEGD**	Mr. Navdeep Jain	https://nptel.ac.in/courses/112106196	https://www.youtube.com/watch?v=fGTT6eUjTtE&list=PL6HQVc8_tFGI_JFsZMEjXHudN8ZPMjLp8	https://www.youtube.com/watch?v=agBQJVerQQc
8	VI	Machine Component Design	ME602	**STEADY STRESSES & VARIABLE STRESSES IN MACHINE MEMBERS**	Dr. Vivek Gupta Sir	https://archive.nptel.ac.in/courses/112/105/112105124/	https://www.youtube.com/watch?v=fGTT6eUjTtE&list=PL6HQVc8_tFGI_JFsZMEjXHudN8ZPMjLp8	https://mm-nitk.vlabs.ac.in/exp/universal-joint/simulation.html
9	VI	Turbo Machinery	ME603	Fluid Dynamic Characterization of Turbo-machinery	Mr. Suveer	https://nptel.ac.in/courses/112106200	https://www.youtube.com/watch?v=rdb6rL4k1Bk&list=PL6HQVc8_tFGJCRrBg94-T_WEgPxL4FcoQ	https://fmc-nitk.vlabs.ac.in/exp/kaplan-turbine/simulation.html
10	VI	Renewable Energy Technology	ME604	Renewable Energy	Mr Umesh Badode	https://nptel.ac.in/courses/103103206	https://www.youtube.com/watch?v=roxuawcqzCA&list=PL9fGaCid4G_a2aS-Hjm_uVNsYhiQdYMyq	NA
11	V	I C Engines	ME501	Fuel Induction to Combustion in I.C. Engines	Mr. Akashdeep Gupta	https://nptel.ac.in/courses/112103262	https://www.youtube.com/watch?v=-LwmVczg4Dg&list=PLiSPNzs4fD9tOj1Zi4JIHg5LJomkez_zJ	http://vlabs.iitkgp.ernet.in/rtvlas/exp1/index.html#

12	V	Mechanical Vibration	ME502	Free Vibrations of Particles. Simple Harmonic Motion	Mr. Vipin Singh	https://nptel.ac.in/courses/112107212	https://www.youtube.com/watch?v=cLzfdO1gOrk&list=PLiSPNzs4fD9spvBAr_fpt5SIe-Eg1YoN9	https://mdmv-nitk.vlabs.ac.in/exp/exp-sdof-system-nitk/simulation.html
13	V	Dynamics of Machine	ME503	Governors		https://nptel.ac.in/courses/112104114	https://www.youtube.com/watch?v=oLM6uCNlihA&list=PLelAq9xzEDXCpJbs5K6kN9LyA9TDHiLed	NA
14	V	Industrial Engineering & Ergonomics	ME504	Industrial and Systems Engineering	Mr. Umesh Badode	https://nptel.ac.in/courses/112107292	https://www.youtube.com/watch?v=JW_bwRRu56w&list=PLNyPK_sfNdSTX5Z_V48T6U5WRlAtNYTnv	NA
15	IV	Energy & Environmental Engineering	ME401	Green Engineering, Process Safety and Inherent Safety: A New Paradigm	Mr. Umesh	https://nptel.ac.in/courses/127105018	https://www.youtube.com/watch?v=jtZ3oEX5w6g	NA
16	IV	INSTRUMENTATION & CONTROL	ME402	Introduction to control system	Mr. Suveer and Mr Vipin Singh	https://nptel.ac.in/courses/108105064	https://www.youtube.com/watch?v=zuVUdjjtsTs&list=PLk7ptZcI9vmj6d5sVdW2NlSPW0LrOudXU	https://ems-iitr.vlabs.ac.in/exp/dcmotor-field-resistance-control/simulation.html

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17	IV	THEORY OF MACHINES	ME403	Introduction of gear	Mr. Vipin Singh	https://nptel.ac.in/courses/112104121	https://www.youtube.com/watch?v=Vo5ZFmA47Uc&list=PL6HQVc8_tFGIxD8Eubd1M2VfSsSOM2teD	https://dom-nitk.vlabs.ac.in/exp/disc-type-flywheel/simulation.html
18	IV	FLUID MECHANICS	ME404	Components of Centrigugal pumps	Dr. Vivek Mishra	https://nptel.ac.in/courses/112105171	https://www.youtube.com/watch?v=3AFTt1dStMM&list=PL6HQVc8_tFGLEotM-r7doeCVP2QqYCmha	https://fm-nitk.vlabs.ac.in/exp/calibration-of-v-notch/simulation.html
19	IV	MANUFACTURING TECHNOLOGY	ME405	Heat Treatment		https://nptel.ac.in/courses/112107219	https://www.youtube.com/watch?v=H6Afy1sizmE&list=PLjQMEOXj4i1-Rfm9ta8khrgcukzPZt1eA	https://mrmsmtbs-iitk.vlabs.ac.in/exp/indent-depth/simulation.html
20	III	Thermodynamics	ME-301	The Experimental Measurement of Heat	Mr. Suveer Dubey	https://nptel.ac.in/courses/127106135	https://www.youtube.com/watch?v=nfwrVdHJ7Lk&list=PL6HQVc8_tFGJUuTSGzOFC17-Sn92IAauC	NA
21	III	Materials Technology	ME-302	Introduction Of Construction Material	Dr. Vivek Mishra	https://nptel.ac.in/courses/113102080	https://www.youtube.com/watch?v=H6Afy1sizmE&list=PLjQMEOXj4i1-Rfm9ta8khrgcukzPZt1eA	https://mrmsmtbs-iitk.vlabs.ac.in/exp/hardness-modulus/simulation.html
22	III	Strength of Material	ME-303	Classifying Loads on Materials	Mr. Mukesh Sharma	https://nptel.ac.in/courses/105105108	https://www.youtube.com/watch?v=LTxw9ugECU4&list=PL6HQVc8_tFGI0dfOxFioOdm-QmcPxiv85	https://sm-nitk.vlabs.ac.in/exp/izod-impact-test/simulation.html
23	III	Manufacturing Process	ME-304	Basic Machine Processes	Mr. Shantanu roy	https://nptel.ac.in/courses/112104195	https://www.youtube.com/watch?v=t3XNDPDEj4Q&list=PL6HQVc8_tFGKHr9I8IYHK2Q3MPx4qVEUY&index=6	http://vlabs.iitkgp.ac.in/psac/newlabs2020/vlabiitkgpAM/exp1/Webpage/index.html

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