MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to R.G.P.V, Bhopal)

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DEPARTMENT OF ELECTRONICS ENGINEERING

NEWSLETTER January-March 2024/Issue-1

Content

1. FDP/STC Attended(Outside/Inside) the Institute.
2. Activities Organized(Workshop/Conference/FDP) at Institute Level.
3. NPTEL/ATAL/Coursera/Internshala attended by faculty.
4. Publication SCI/Scopus/UGC with DOI number.
5. Student Club Activities Organized.
6. Departmental Activities.
7. Student's Achievement

1.FDP/STC Attended(Outside/Inside) the Institute.

1. Mr. D.K. Parsediya successfully completed one-week workshop on "Future Communications Technologies: 5G & Beyond" during January 29-Feb. 3, 2024 organized by NIT Uttarakhand

2. Mr. Prateek Bhadauria Attended One Week Short Term Course on cutting edge advancements in biomedical engineering (CABE-2024) lab to Industry at NIT Jalandhar (Punjab) during 08-12 January 2024.

3. Dr. Sushmita Chaudhari successfully completed one-week FDP on Surface Engineering of Nanomaterials conducted by SWAYAM NPTEL during Jan-March 2024.

4. Dr. Vikas Mahor successfully completed one-week FDP on Neuroevolution based advanced semiconductor devices conducted by BITS Mesra from 7-11 March 2024.

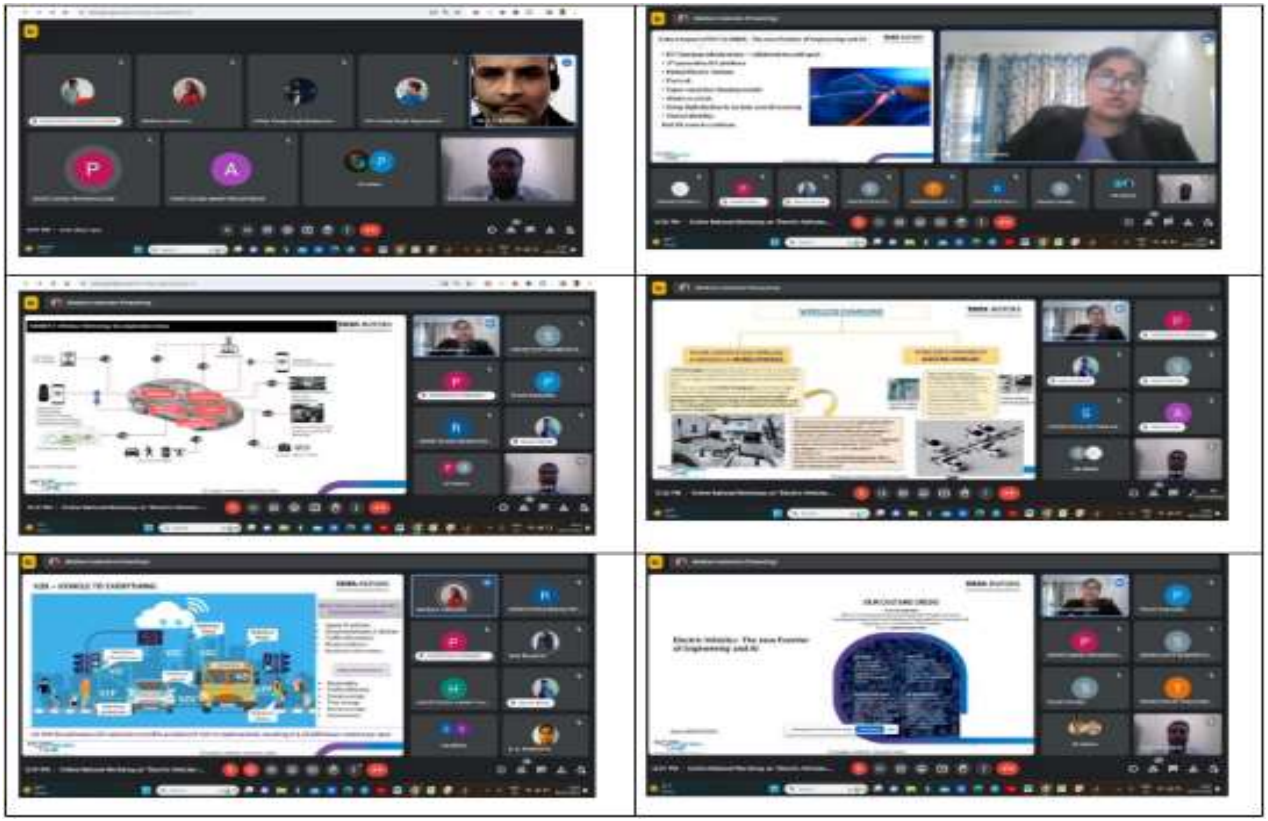
5. Mr. Rachit Jain completed Five day FDP on "Future Challenges in 6G", 04.03.2024- 08.03.2024, Organized by Department of Wireless communication, SIMATS Engineering , Thandalam, Chennai, Tamil Naidu, India.

2. ACTIVITIES ORGANIZED AT INSTITUTE LEVEL

1. An Ethics Workshop was organized on “Anxiety and Peer Pressure for Goal setting” on 5th Feb 2024.Dr. Sapna Kumari delivered the lecture.

2. A national level workshop on 5G enabling technologies and applications was organized on 16th Feb 2024. Mr.Karthikeyan Sundaram, IIT Madras, Chennai and Mr. Vikram Singh, Gigayasa Wireless , Chennai.
Delivered the talk.

3. An online workshop was organized on Electric vehicles- The new frontier of Engineering and AI on 9th March 2024. Ms. Medhavi Mahendra, Senior Manager, Tata Motors, Ms Sudha Ganugapenta, PGET, Tata Motors delivered the talk.



3. NPTEL/ATAL/Coursera/Internshala attended by faculty.

1. Dr. Sushmita Chaudhari successfully completed a 8 week NPTEL course on Surface Engineering of Nanomaterials in elite category from Jan-March 2024.

2. Dr. Jenkin Suji successfully completed a 8 week NPTEL course on " Introduction to Machine learning" in elite category from Jan-March 2024.

3. Dr. Deepak Batham successfully completed a 8 week NPTEL course on " Fuzzy logic and neural networks from Jan-March 2024.

4. Dr. Shubhi kansal successfully completed 8 week course on " Creative Problem solving" conducted by NITTT.

5. Dr. Sushmita Chaudhari successfully completed a 8 week course on " Creative Problem solving" and "Technology enabled learning" conducted by NITTT.

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

R JENKIN SUJI

for successfully completing the course

Introduction to Machine Learning (Tamil)

with a consolidated score of **63** %

Online Assignments	22.54/25	Proctored Exam	40.13/75

Total number of candidates certified in this course: **197**

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Mar 2024

(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL24CS36S549000227 To verify the certificate No. of credits recommended: 2 or 3

NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DEEPAK BATHAM

for successfully completing the course

Fuzzy Logic and Neural Networks

with a consolidated score of **46** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Mar 2024)

Roll No: NPTEL24GE17S649300045 Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated: 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SUSHMITA CHAUDHARI

for successfully completing the course

Surface Engineering of Nanomaterials

with a consolidated score of **71** %

Online Assignments	18.75/25	Proctored Exam	52.5/75

Total number of candidates certified in this course: **157**

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Mar 2024

(8 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL24ME20S549000229 To verify the certificate No. of credits recommended: 2 or 3

4.Publication SCI/Scopus/UGC with DOI number.

1. **Deepak Batham, Vandana Vikas Thakare**, "An improved cost function-based class of service provisioning scheme for elastic optical networks," Computer Networks, Volume 243, pp-110283, 2024. ISSN 1389-1286, DOI: https://doi.org/10.1016/j.comnet.2024.110283.
2. Bhupendra Dhakad and **Laxmi Shrivastava**, "Machine Learning-Based Risk-Aware Congestion Control Scheme for Minimization of Information Loss in Dense VANET Environment", Journal of Circuits, Systems, and Computers (2024) 2450165 (27 pages) (SCI) DOI:10.1142/S0218126624501652
3. **Madhav Singh** and **Laxmi Shrivastava**, "Multi-objective optimized multi-path and multi-hop routing based on hybrid optimization algorithm in wireless sensor networks" Wireless Networks, March 2024. (SCI) DOI: https://doi.org/10.1007/s11276-024-03686-5
4. Singh, Prachi, and **Vikas Mahor**. "Prediction of Groundwater Contamination in an Open Landfill Area Using a Novel Hybrid Clustering Based AI Model." Environment Protection Engineering, Vol. 50(1), pp 172-190. DOI: http://dx.doi.org/10.1080/15275922.2024.2330027 .
5. Prachi Singh, **Vikas Mahor** & Raj Mohan Singh (2024) A Novel Approach to Pollution Source Identification in Groundwater Using Hybrid Ensemble of Wavelet Neural Network (WNN) and ARIMA, Environmental Forensics, Taylor & Francis, (online first) DOI: 10.1080/15275922.2024.2330027

6. **R. Jain, V. V. Thakare, and P. K. Singhal**, "Design and Comparative Analysis of THz Antenna through Machine Learning for 6G Connectivity," IEEE Latin America Transactions, vol. 22, no. 2, pp. 82-91, 2024
7. R. Ramasamy, V. Rajavel, D. Ghoshal, **R. Jain**, R. Nanmaran, and S. Srimathi, "An Intelligent Antenna Optimization Using Machine Learning Algorithm for 5G Applications," in Advances in Data-Driven Computing and Intelligent Systems: Selected Papers from ADCIS 2023, Volume 3, 2024
8. **R. Jain, V. V. Thakare, P. K. Singhal**, R. Radhakrishnan, S. Gupta "Advancing the Frontiers of Connectivity: A Comprehensive Overview of 6G Communication Networks," for the upcoming book, "6G Communication Network: Architecture, Security, and Applications," published by CRC Press, Taylor & Francis Group, USA.
9. **Atul Sharma, Vandana Thakare, Pramod Singhal** and **Rachit Jain** , "Dual-Band Rectenna for Optimal RF Energy Harvesting in Wireless Applications"In 2024 IEEE Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI), ABV-IIITM Gwalior.
10. Shailendra Singh Ojha, **Vandana Vikas Thakare,** and **P. K. Singhal**. "Ultra-wideband rectenna with the dual ground plane for wide dynamic input power and load range." International Journal of Electronics (2024) pp 1-25.

5. S TUDENTS CLUB ACTIVITIES

1. A poetry competition ‘Shame ulfat’ was organized by Hindi club on 14th Feb 2024. Total 43 students participated in it.

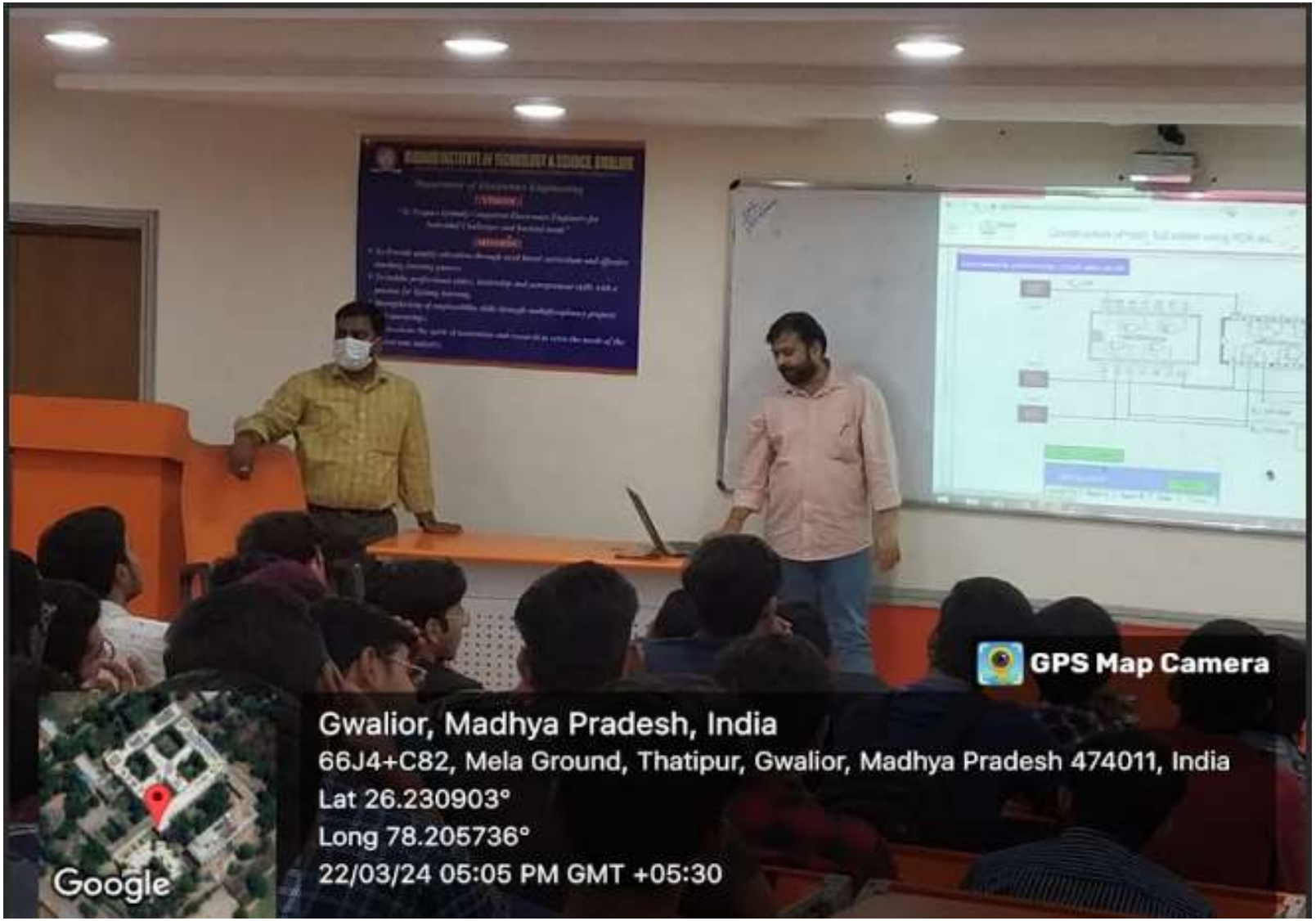
2. An activity was organized by ‘Prakriti club’ on 13th March 2024.

3. ‘ Rashtraay club’ performed a street play in DD mall on 13th Feb 2024.

PRAKRITI CLUB
Add a comment

6. DEPARTMENTAL ACTIVITIES

1. Orientation program of 3 and 4th year was organized on 1 Jan 2024.
2. Orientation program of 2nd year was organized on 11 Jan 2024.
3. Orientation program of 1st year was organized on 25 Jan 2024.
4. Department organized an expert lecture on “the future of 5G communication” on 29th Jan 2024. Mr. Rachit Jain delivered the lecture
5. A webinar on “Campus to corporate in VLSI Design” was organized on 9th Feb 2024. Ms. Apurva Gupta, Senior VLSI Engineer, Microsoft, India delivered the talk.
6. Industrial visit was organized on 16th March 2024by dept. for 2nd and 3rd year students to Smart controls Pvt Ltd, Malanpur. Dr. Deepak Batham and Dr. Hemant Chaubey coordinated the event.
7. An Online Panel discussion and interaction of Expert-Alumni on “Industrial demand and current adopted technologies in the field of Electronics was organized on 16th March 2024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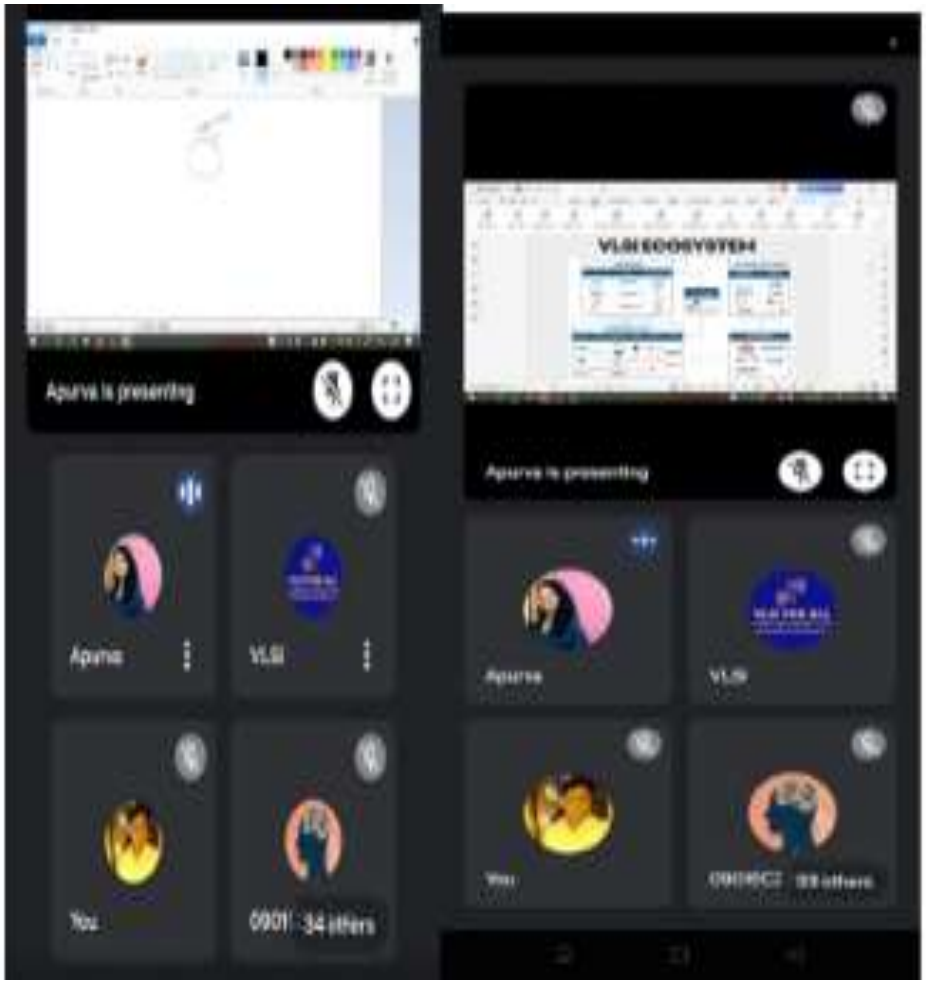
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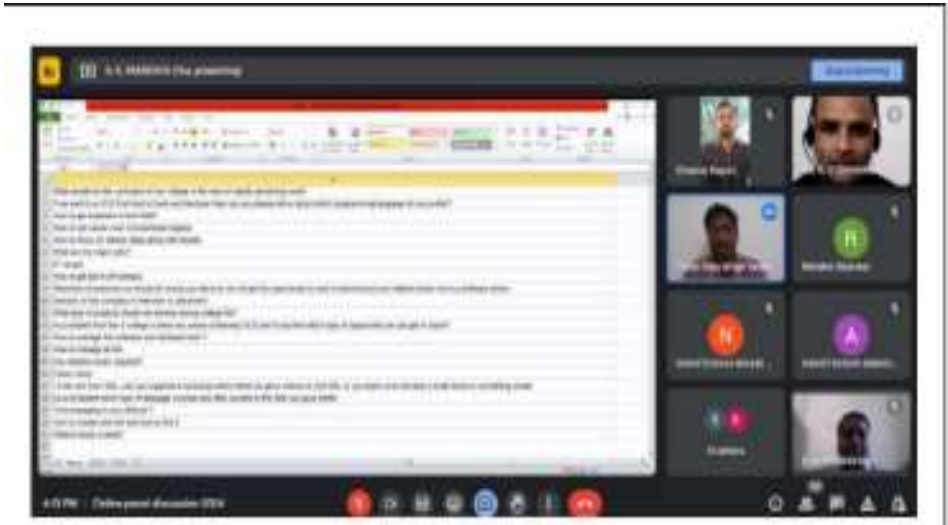

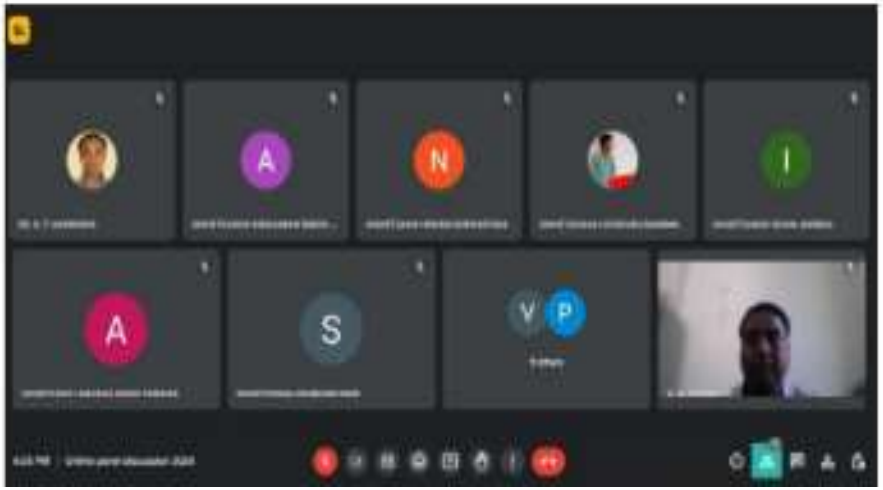

7. Student's Achievement

1. Total 25 student's cleared the GATE examination conducted in Feb 2024.
2. Shruti Jain ET final year student secured 75 AIR in GATE 2024.

3. Aditya Verma EC Third year student secured 410 AIR in GATE 2024.