POORNIMA
COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

A Report on one week Faculty Development Program

- **TITLE AND DURATION:** "Machine Learning & Deep Learning Techniques with its Applications" from August 18-22, 2020.

- **SUPPORTERS:** IEEE Rajasthan Sub Section.

- **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.

- **BROCHURE / POSTER / LEAFLET / FLYER:**

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

ABOUT TEQIP-III

The Project, third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

RAJASTHAN TECHNICAL UNIVERSITY

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The University currently affiliates about 129 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. Colleges and 3 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

POORNIMA COLLEGE OF ENGINEERING

Poornima College of Engineering (PCE), established as a brand of technical education in the year 2000, has its own glorious legacy of leading the young engineers to the mammoth sky of success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

Department of Electrical Engineering

The Journey of Department of Electrical Engineering was started in year 2000 with Poornima College of Engineering, Jaipur. The department has its major share in the entire PF with the total intake of more than 600 students. We are providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions.

The department has organized various workshops, seminars, expert lectures in this session i.e. workshop on PLC SCADA, MATLAB, Renewable Energy, Industrial Automation, etc. The department has been taking initiatives for versatile enhancement of the students through technical, cultural and sports fests since the establishment. Most of our final year students have been placed in Infosys, Capgemini India Ltd., FACE, Gram Power, Adani Power, KSTPS, Pinnacle Infotech solutions, etc.

COURSE CONTENTS

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. The purpose of machine learning is to discover patterns in the data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. Machine learning is effectively a method of data analysis that works by automating the process of building data models.

Deep learning (DL) is part of a broader family of machine learning methods based on learning data representations, as opposed to task-specific algorithms. Deep learning is a key technology behind driverless cars, enabling them to recognize a stop sign, or to distinguish a pedestrian from a lamppost. It is the key to voice control in consumer devices like phones, tablets, TVs, and hands-free speakers. It is the buzz word of today's Artificial Intelligence (AI) industry.

Topics to be covered

- Introduction to ML and DL
- Architectures
- Naive Bayes
- Convolution neural network
- TLBO and its variant
- Transfer learning models
- Difference between ML and DL
- Algorithms
- Binary Genetic Algorithm
- Segmentation
- Classification
- DL in image processing & electric utility.

Objectives of the FDP

- To equip teachers with skills and knowledge in the field of machine learning and deep leaning, this is essential for inculcating learning values in students and guiding & monitoring their progress towards their career.
- To prepare the faculties for creating interest towards the field of machine learning and deep leaning and also familiarize the students with the practical aspects of this field and gradually teach them the industrial usage of machine learning and deep leaning for various applications.

FDP COMMITTEE

CHIEF PATRON

Prof. (Dr.) R. A. Gupta
Hon'ble Vice Chancellor, RTU Kota

PATRON

Dr. S. M. Seth
Chairman (Emeritus) Poornima Group

Ar. Shashikant Singhi
Chairman, Poornima Group

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Director General, Poornima Group

Mr. Hari Singh Shekhawat
Director, (Infrastructure), Poornima Group

Ar. Rahul Singhi
Director, Poornima Group

Dr. Mahesh M. Bundele
Principal & Director, Poornima College of Engineering

Dr. Rekha Nair
Vice-Principal, Poornima College of Engineering

RTU (ATU) TEQIP-III COORDINATOR

Prof. (Dr.) Dhirendra Mathur

RTU EVENT COORDINATOR

Mr. Vikash Tripathi

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma (Nodal officer)
Prof. D. K. Sambariya (Nodal Officer Procurement)
Dr. S. D. Purohit (Nodal Officer Finance)
Sr. Irum Alvi (Conference)
Mr. Santosh Sharma (Expert Lecture)
Mr. Anshul Bansal (GATE & Induction)
Mr. Dinesh Kumar (Workshop)

HOST INSTITUTE COORDINATORS

Dr. Tarun Varshney — Professor, EE, PCE
Dr. Virendra Sangtani — Professor & HOD, EE, PCE

• PROGRAM SCHEDULE:

Programme Outline	
Tuesday, Day 1: 18 August, 2020	
10.00 am – 10.30 am	**Inaugural Function** **Prof. R. A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest)** **Prof. Rahul Banerjee, Director, LNMIIT Jaipur(Guest of Honour)** **Dr. Mahesh Bundele**, Director-Principal, Poornima College ofEngineering **Mr.ViakshTripathi, RTUeventCoordinator** **Dr.VirendraSangtani,** HOD,EED **Dr.TarunVarshney**, Coordinator
10.30 am -11.30 am	**Session-1** **Topic:Apply Data Science Techniques to Cyber Security** **Resource Person:**Mr.DivyanshuVerma, Sr. Manager, Intel Technologies Banglore
11.30 am - 1.00 pm	**Session-2** **Topic:**Introduction to Neural Network and Deep learning **Resource Person:**Dr.JenyRajan, Assistant Professor, ECD, NIT, Surathkal
Programme Outline	
Wednesday, Day 2: 19 August, 2020	
9.30 am -10.30 am	**Session-3** **Topic:**Neural Networks and Machine Learning

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	Resource Person: Dr.Nitin Singh, Associate Professor, EED, MNNIT, Allahabad
10.30 am -11.30 am	**Session-4** **Topic:**Mathematical framework behind Machine Learning **Resource Person:**Dr.AnupamYadav, Assistant Professor Department of Mathematics, NIT Jalandhar
11.30 am – 12.00 Noon	**BREAK**
12.00 - 1.00 pm	**Session-5** **Topic:**Naive Bayes Algorithm **Resource Person:**Dr. KK Mishra, Assistant Professor, CSE, MNNIT, Allahabad
Programme Outline	
Thursday, Day 3: 20 August, 2020	
9.30 am -11.00 am	**Session-6** **Topic:**TLBO and its variant with its application in Segmentaion **Resource Person:**Dr.VinayPratap Singh, Assistant Professor, EED, MNIT Jaipur
11.00 am -11.30 am	**BREAK**
11.30 am - 1.00 pm	**Session-7** **Topic:**Binary GA Classification **Resource Person:**Dr. KK Mishra, Assistant Professor, CSE, MNNIT, Allahabad
Programme Outline	
Friday, Day 4: 21 August, 2020	
9.30 am -11.00 am	**Session-8** **Topic:Deep learning Architectures for Segmentation of Histopathogy Medical** Images **Resource Person**:Dr.ShyamLal, Assistant Professor, ECD, NIT, Surathkal
11.00 am -11.30 am	**BREAK**
11.30 am - 1.00 pm	**Session-9** **Topic:**DE and Binary DEwith its application in Machine learning **Resource Person:**Dr.VinayPratap Singh, Assistant Professor, EED, MNIT Jaipur
Programme Outline	
Saturday, Day 5: 22 August, 2020	
9.30 am -11.00 am	**Session-10** **Topic:**Clustering and Classification (Lab session by using Python) **Resource Person:**Lt (Dr.) Divya Kumar, Assistant Professor, CSE, MNNIT, Allahabad
11.00 am -11.30 am	**BREAK**
11.30 am - 12.30 pm	**Session-11** **Topic:**Application of ML/DL in Health

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	Utility **Resource Person:**Dr. B. Satish, Utilities Lead Consultant, Infosys Limited
12.30 pm –1.00 pm	**Closing & Feedback Session**

DETAILS OF RESOURCE PERSONS:

Dr.K.K. Mishra

Assistant Professor, CSE, MNNIT, Allahabad ,kkm@mnnit.ac.in

Dr. K. K. Mishra is presently working as Assistant Professor in Department of Computer Science and Engineering, MNNIT Allahabad, Prayagraj. He has successfully organized around 6 IEEE conferences in India (ICCCT Series) as a conference secretary and worked as a program chair for many other conferences. He has worked as PC members for many conferences in India and abroad and has successfully organized some special issues in highly index journals. He is a regular reviewer of Journal of Supercomputing (Springer), Applied Intelligence, Applied Soft Computing, IEEE Transaction on Cybernetics, IEEE System Journal, Neural computing and application and IETE journals. In addition to it, he has reviewed many publications for SCI andScopus indexed journal.

Mr. Divyanshu Verma

Sr. Manager, Intel Technologies ,Banglore, divyanshuv@gmail.com

A Senior Technology Leader with more than 20 years of experience in Cyber Security, Networking, IoT security, embedded system development, Secured embedded Linux, Kernel Hardening, secure hypervisor, Hardware and software security compliance and standards, SDL security standards and processes,x86, ARM and MIPS architecture.

Divyanshu has contributed towards the success of some of most prestigious organizations such as Intel, Broadcom, Ericsson, Dell RnD, Indian Defense organizations, GE etc.

He has worked closely with Presidents of Business units on various strategic initiatives such as, technical due diligence for prospective acquisition, and Post merger integration

Divyanshu worked 4 years in United States and Europe and led multi-cultural teams in geo locations such as south East Asia, Israel, Europe and United States

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Dr. Nitin Singh

Associate Professor, EED, MNNIT, Allahabad, nitins@mnnit.ac.in

Dr.Nitin Singh is currently working as an Associate Professor in Department of Electrical Engineering, MNNIT Allahabad, Prayagraj, India. He is an alumnus of Motilal Nehru National Institute of Technology Allahabad, India. His primary areas of research are Power System Planning, Electricity markets, Artificial Intelligence, implementation of optimization algorithms and machine learning techniques for power system optimization. He has published more than 45 publications in International Journals and in Proceedings of International Conferences of repute. He is serving as reviewer of several Scopus, SCI and E-SCI-indexed journals. He has organized several international conferences under the banner of IEEE and Springer. He is Member of IEEE, member of IEEE Computational Intelligence Society, Power Energy Society, and Industrial Application society. He is currently serving as Secretary, IEEE Joint Chapter of Industrial Electronics/ Power Electronics /Control System at MNNIT Allahabad.

Dr. Shyam Lal

Assistant Professor, ECD, NIT ,Surathkal,shyamfec@nitk.edu.in; shyam.mtec@gmail.com

ShyamLal received Ph.D. degree in Digital Image Processing from Department of Electronics & Communication Engineering, Birla Institute of Technology, Mesra, Ranchi (Jharkhand), India in 2013. Currently; he is working as Assistant Professor in the department of Electronics & Communication Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore (Karnataka), India since 18th Decem

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2013. He has more than 17 years of Teaching & Research experience. He has supervised 04 Ph.D. students and currently 04 Ph.D. students are working under his supervision in the area of Medical and Remote sensing Image Processing and he has completed 01 R&D project funded by SERB-DST and currently executing 03 R&D projects funded by Govt. of India. He has published more than 70 research papers in the area of Digital Image Processing, Medical Image Processing and remote sensing at International/National Journals & Conferences. He has received Early Career Research Award (Young Scientist) in 2017 from Science Engineering and Research Board,

India and Young Faculty Research Fellowship Research grant in 2019 under Visvesvaraya PhD Scheme for Electronics & IT, Digital India Innovation, MeitY ,Govt of India. He has been Guest Editor of IJSISE, Inderscience Publishers, Editorial member of Open Access Journal of Biomedical Engineering and its Applications, Lupine Publishers, USA. He is Senior Member of IEEE, life member of ISTE, New Delhi, India, Life member of IAENG, Hong Kong and Life member of IACSIT, Singapore. His area of interest includes Digital Image Processing, Histopathology Image Processing, Medical Image Processing, Remote Sensing Image Processing, Machine and Deep Learning with Applications, and Optimization Algorithms with application in Image Processing.

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Dr. Vinay Pratap Singh

Assistant Professor, EED, MNIT Jaipur, vinay.ee@mnit.ac.in

Research Interest

Control Systems, Applications of control to power systems and power electronics, Optimization, Artificial intelligence, Power system optimization, Image processing, Soft computing techniques, Neural networks, fuzzy logic, deep learning.

Dr. Satish Balantrapu

Utility leader consultant, Infosys Limited, findsatish@gmail.com

Dr. B. Satish is a Lead Consultant within the Utilities division of Infosys Ltd. He has over 20 years of experience in the Electric Utilities domain and is a core member of the Smart Grid Practice. He has been involved in various implementation projects related to Smart Grid and Distributed Energy Resources. His interests lie in the application of AI/ML techniques in the Electric Utilities domain. He obtained his PhD on 'Artificial Intelligence techniques for electric load forecasting' from IIIT, Hyderabad and published around 25 papers in International Journals & Conferences including IEEE & Elsevier.

Dr. Divya Kumar

Assistant Professor, CSE, MNNIT, Allahabad, divyak@mnnit.ac.in

Dr. Divya Kumar, is assistant Professor, MNNIT Allahabad. He has completed his M.Tech & Ph.D. from MNNIT Allahabad. He worked as a Senior Software Developer in [illegible] India Ltd. He has published more than 20 research papers in national [illegible]

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reputed journals. He has completed many government projects and more than 15 thesis supervised.

Dr. Jeny Rajan

Assistant Professor, Dept. of Computer Science and Engg, NIT, Surathkal, jenyrajannitk.edu.in, jenyrajan@gmail.com

JenyRajan received his PhD from the University of Antwerp (Vision Lab) Belgium in 2012. Currently he is working as an Asst. Professor at the Dept. of Computer Science and Engineering at the National Institute of Technology Karnataka (NITK), Surathkal (Mangalore), India. His research interests include image processing, deep learning and medical image analysis. He has published around 60 papers in reputed journals and conferences. He is a recipient of Young System Scientist Award from System Society of India (SSI), 2016.

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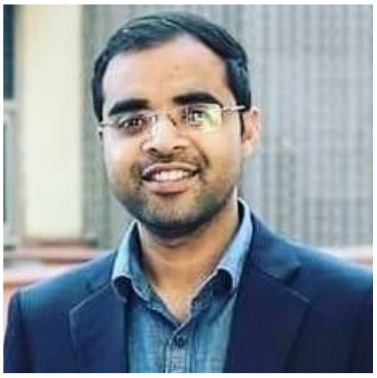
Dr. Anupam Yadav

Dr.AnupamYadav, Assistant Professor, Department of Mathematics, Dr. BR Ambedkar National Institute of Technology Jalandhar, India. His research area includes numerical optimization, soft computing and artificial intelligence, he has more than ten years research experience in the areas of soft computing and optimization. Dr.Yadav has done PhD in soft computing from Indian Institute of Technology Roorkee and he worked as a research professor at Korea University. He has published more than twenty five research articles in journals of international repute, has published more than fifteen research articles in conference proceedings. Dr.Yadav, has authored a text book entitled "An introduction to neural network methods for differential equations. He has edited three books which are published by AISC, Springer Series. Dr.Yadav was General Chair, Convener and member of steering committee of several international conferences. He is an Associate Editor in the journal of the experimental and theoretical artificial intelligence. Dr.Yadav is a member of various research societies.



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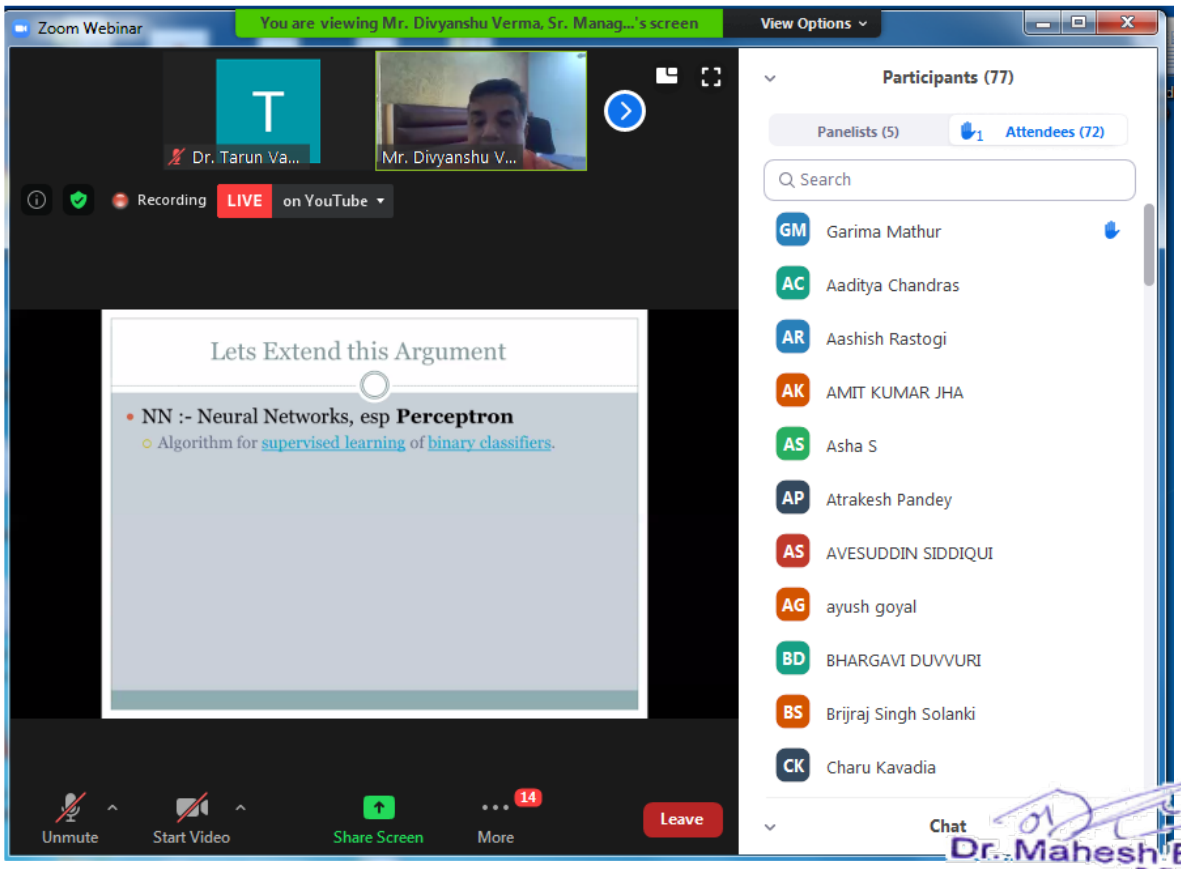

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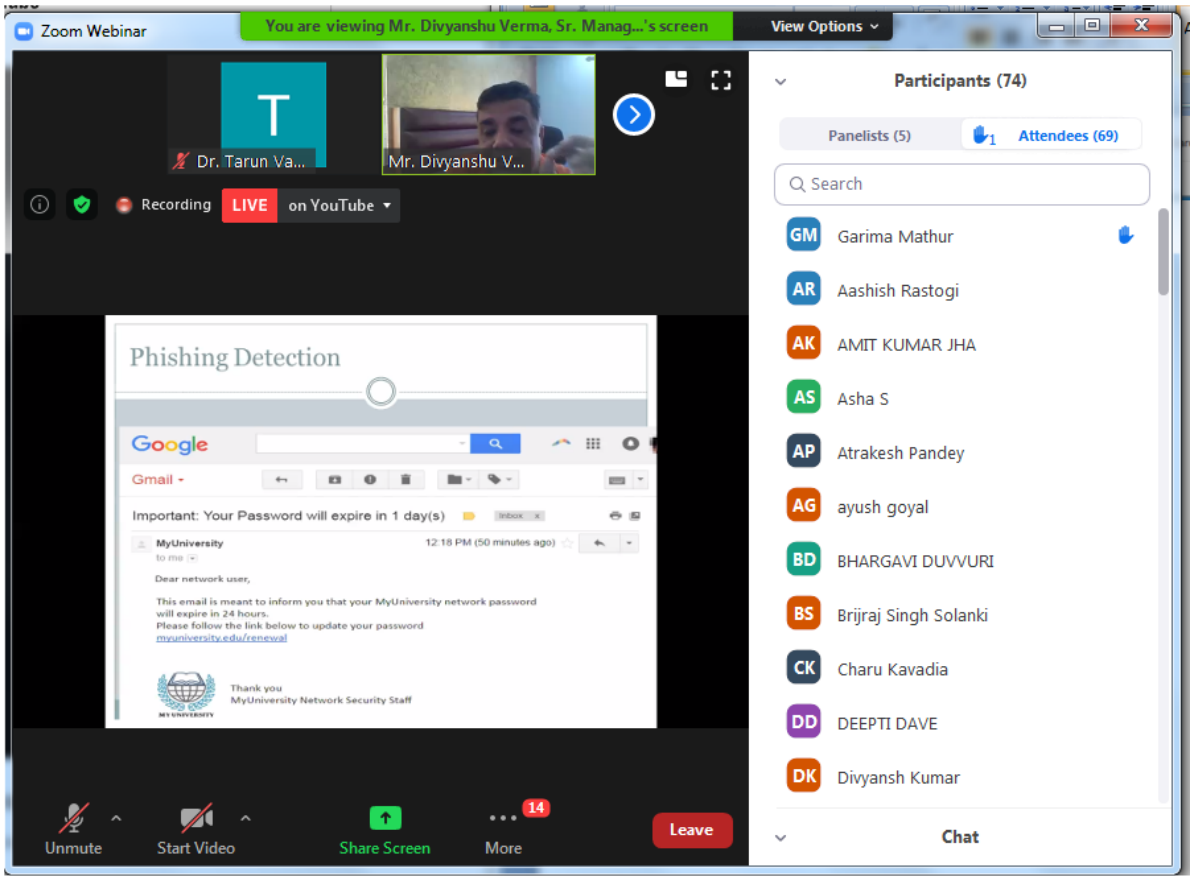

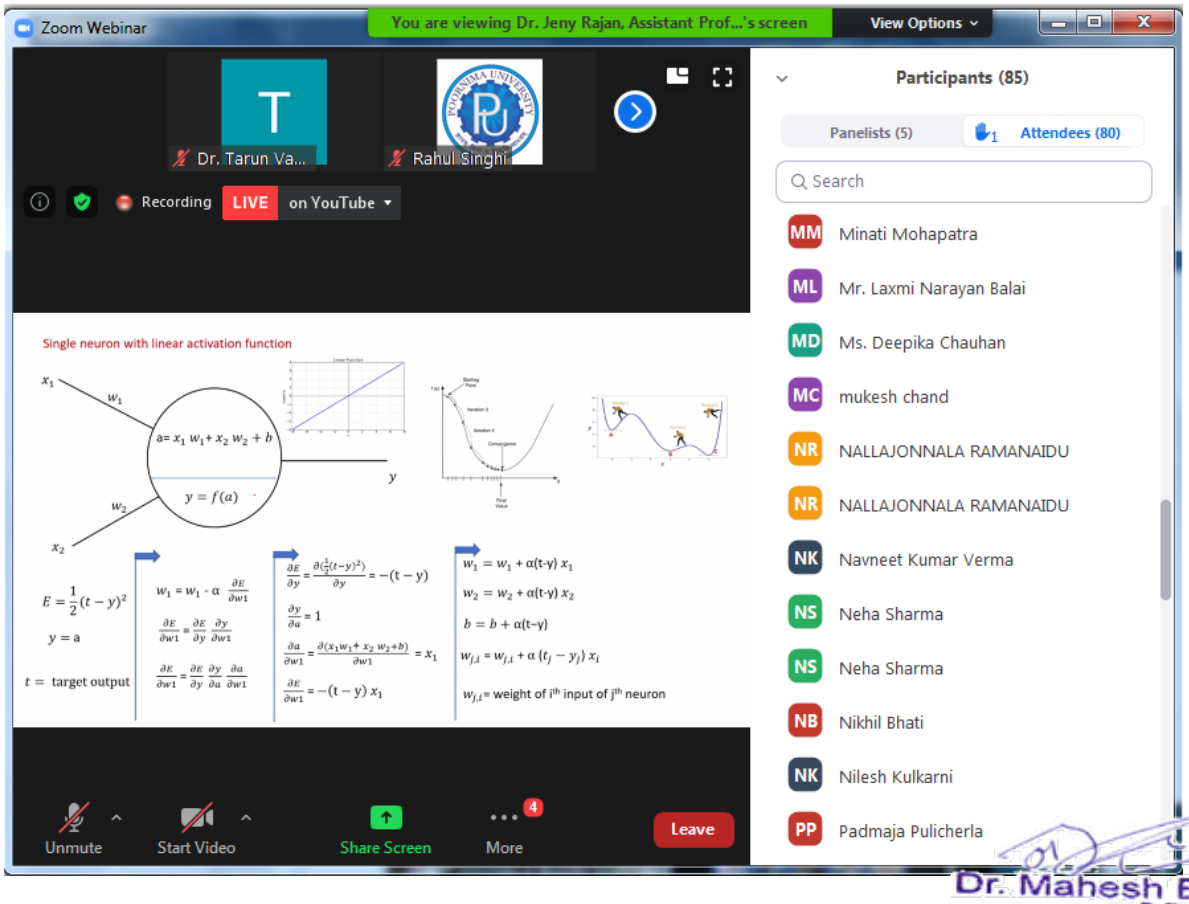

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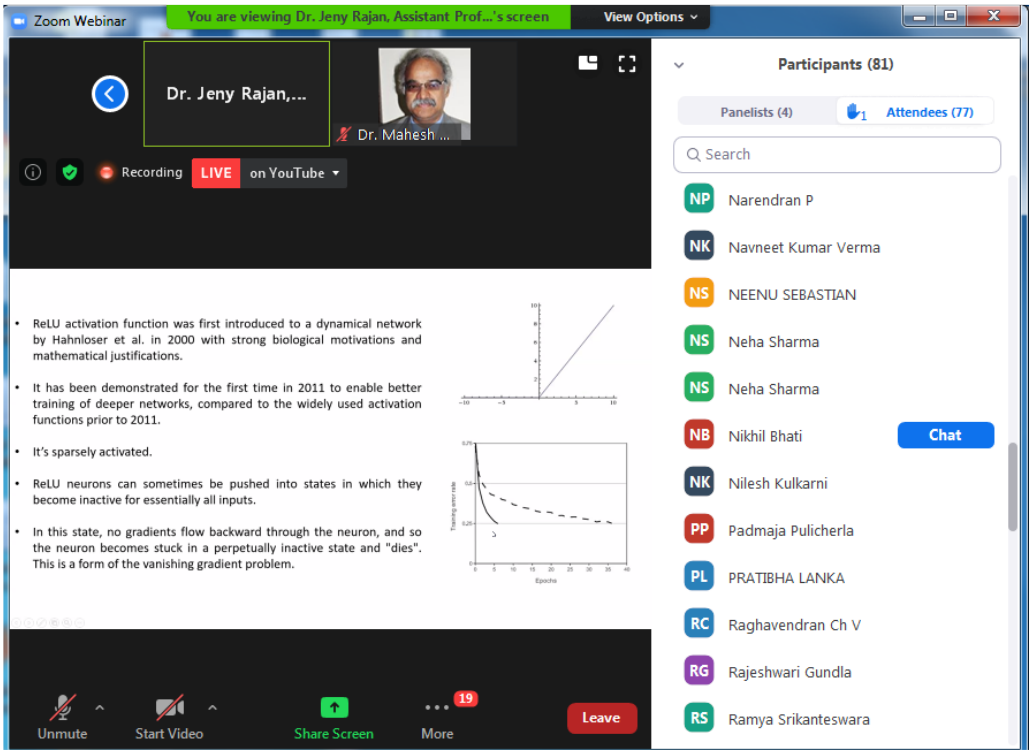

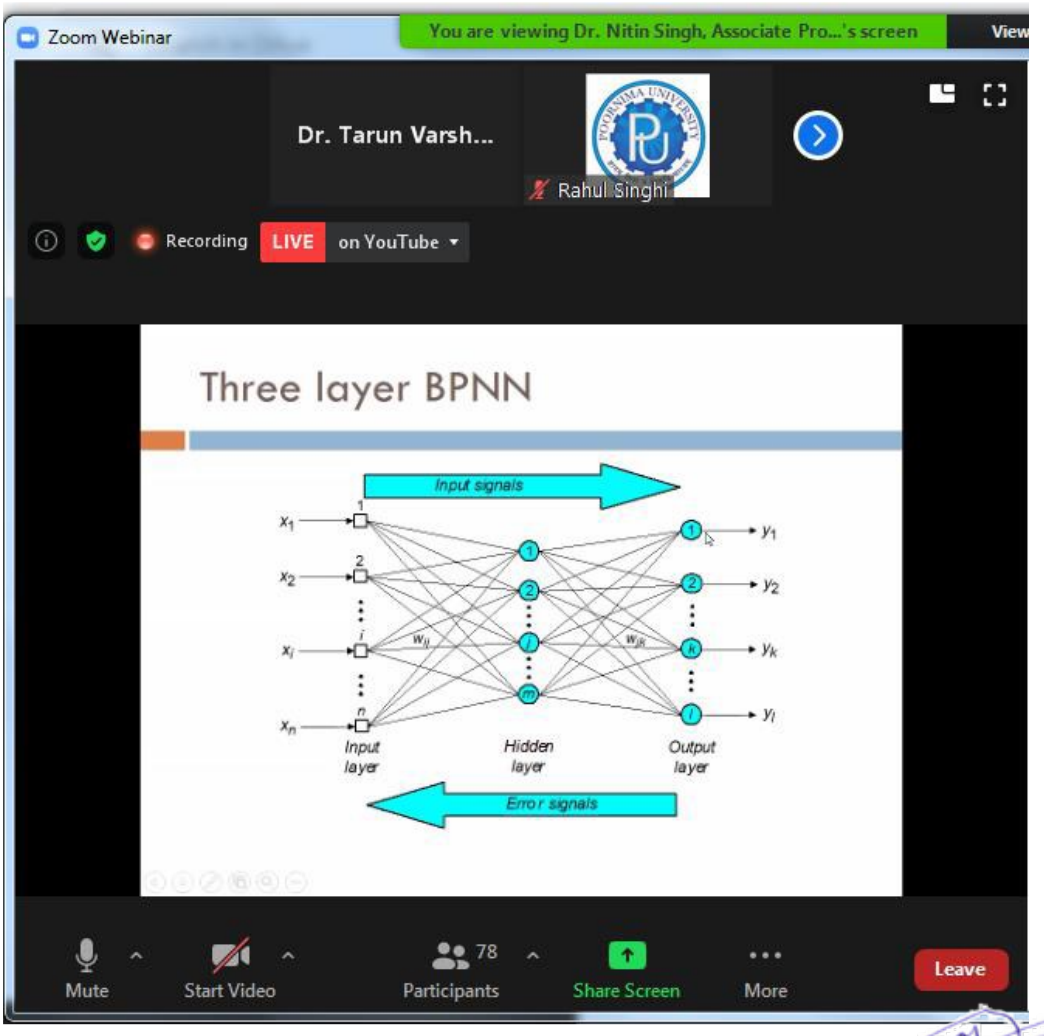

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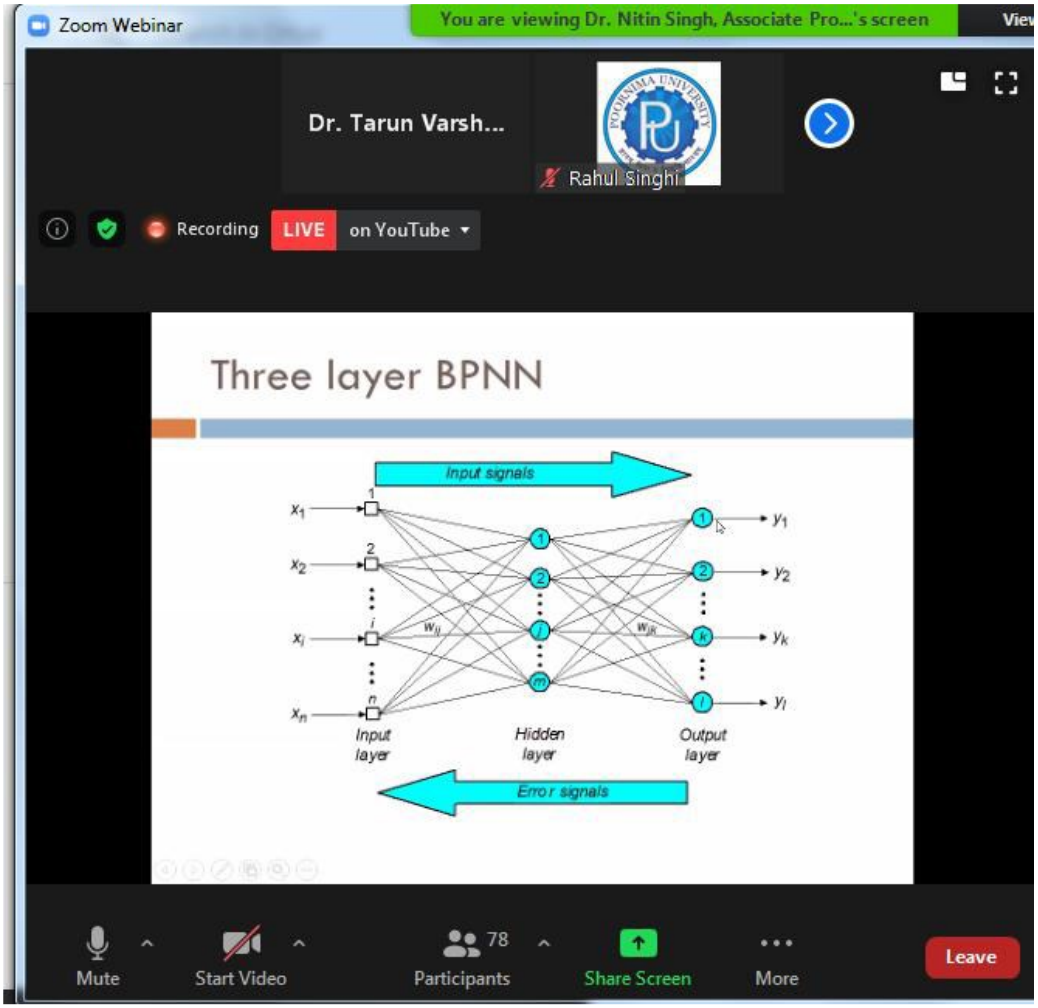

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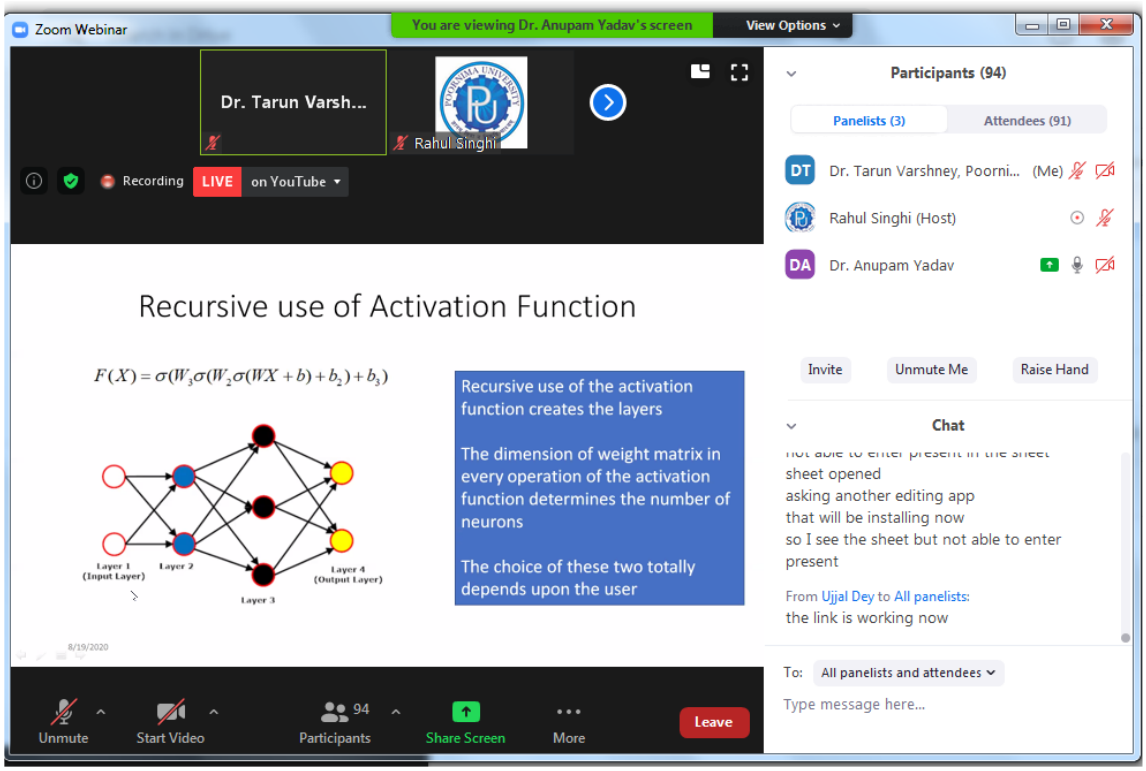

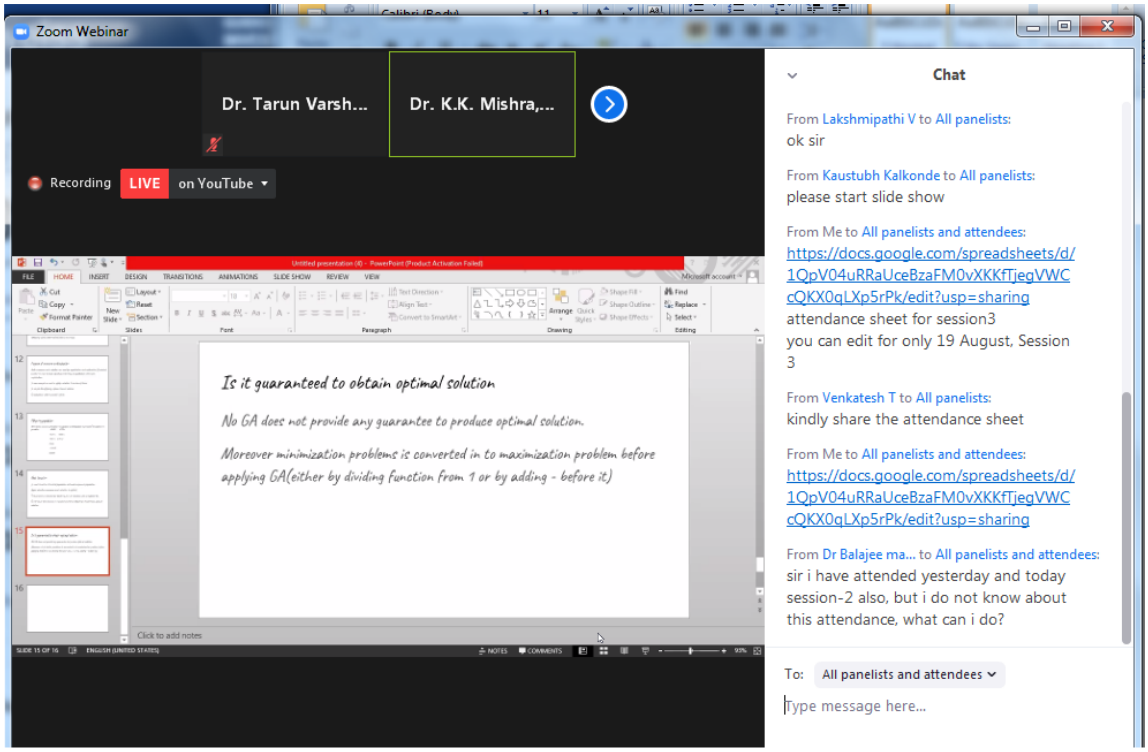

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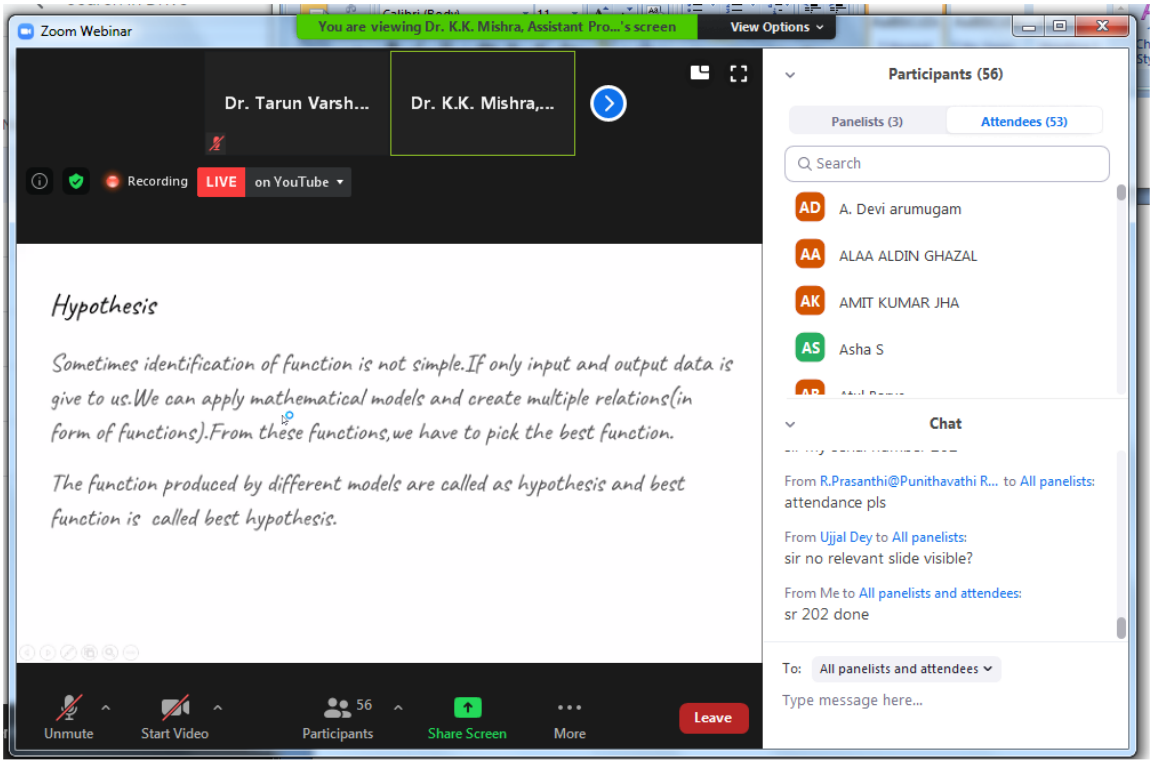

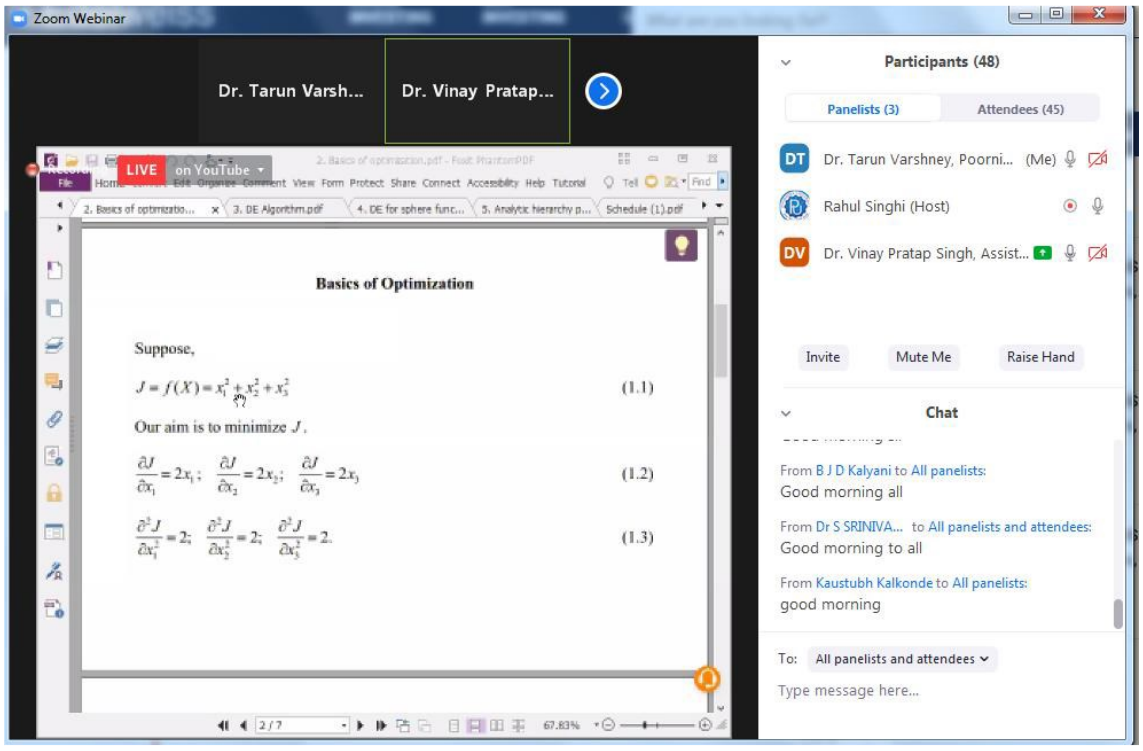

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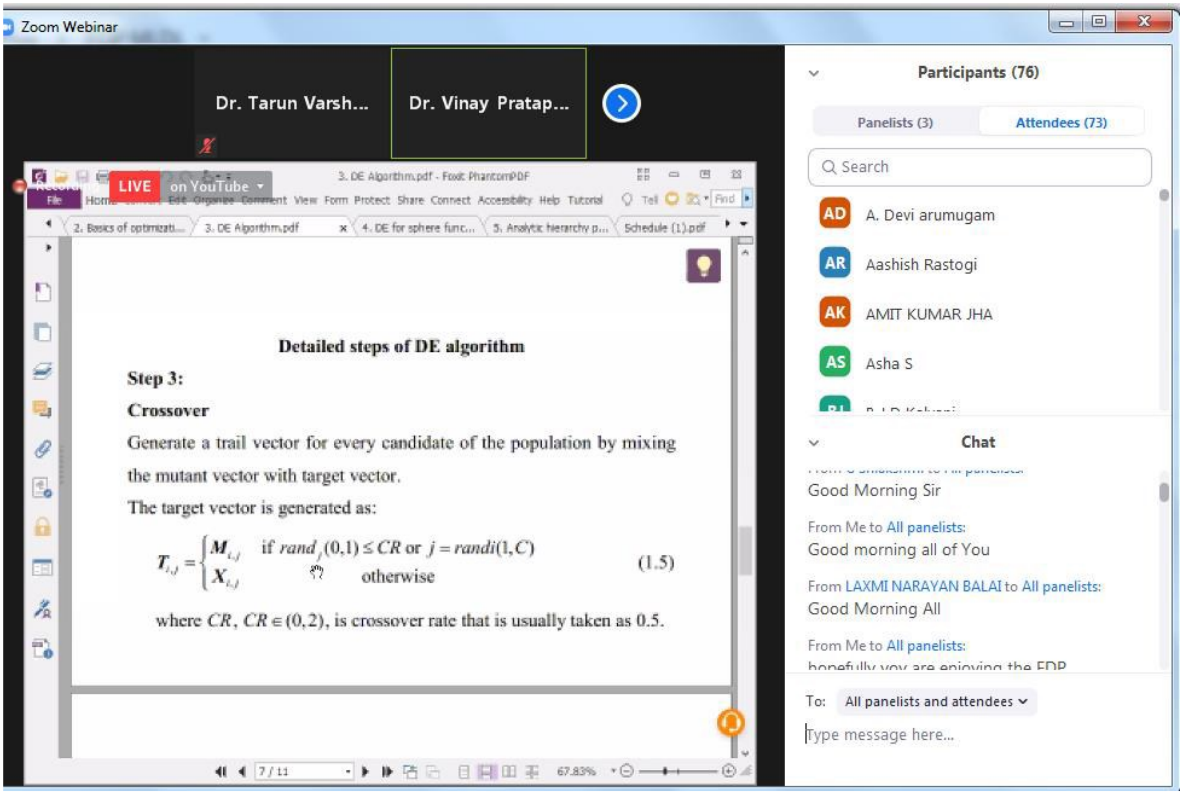

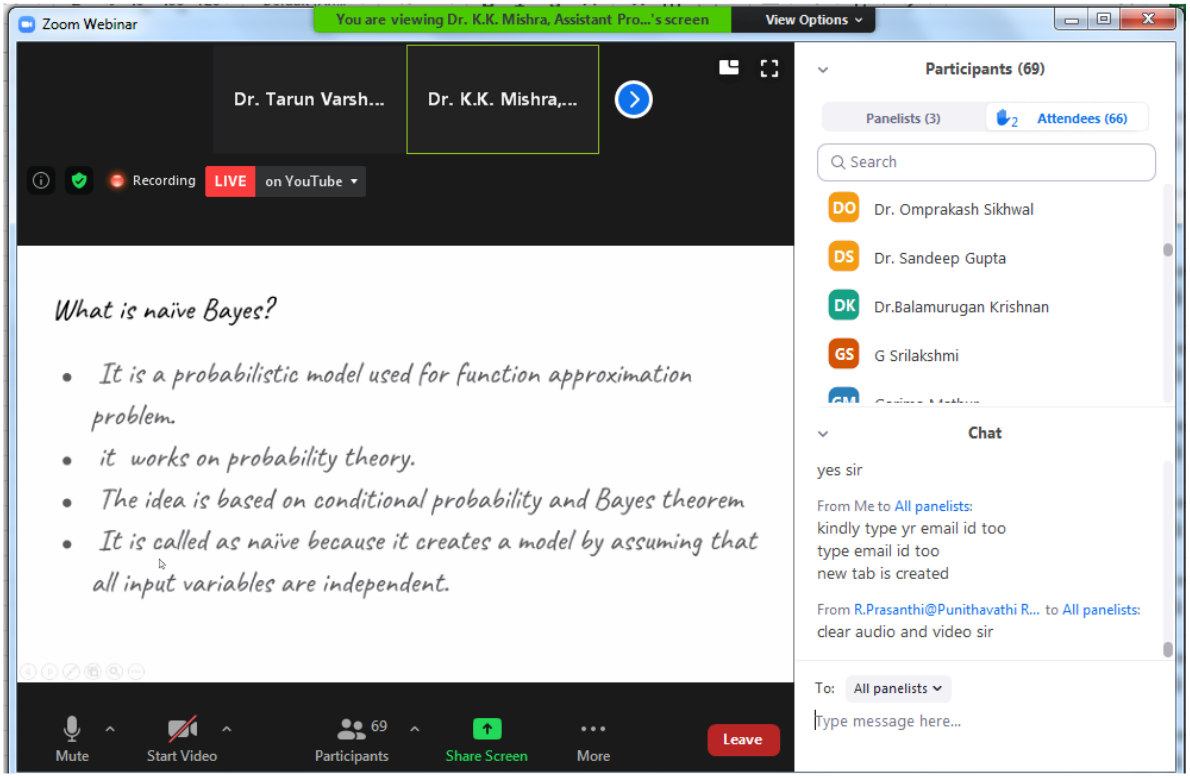

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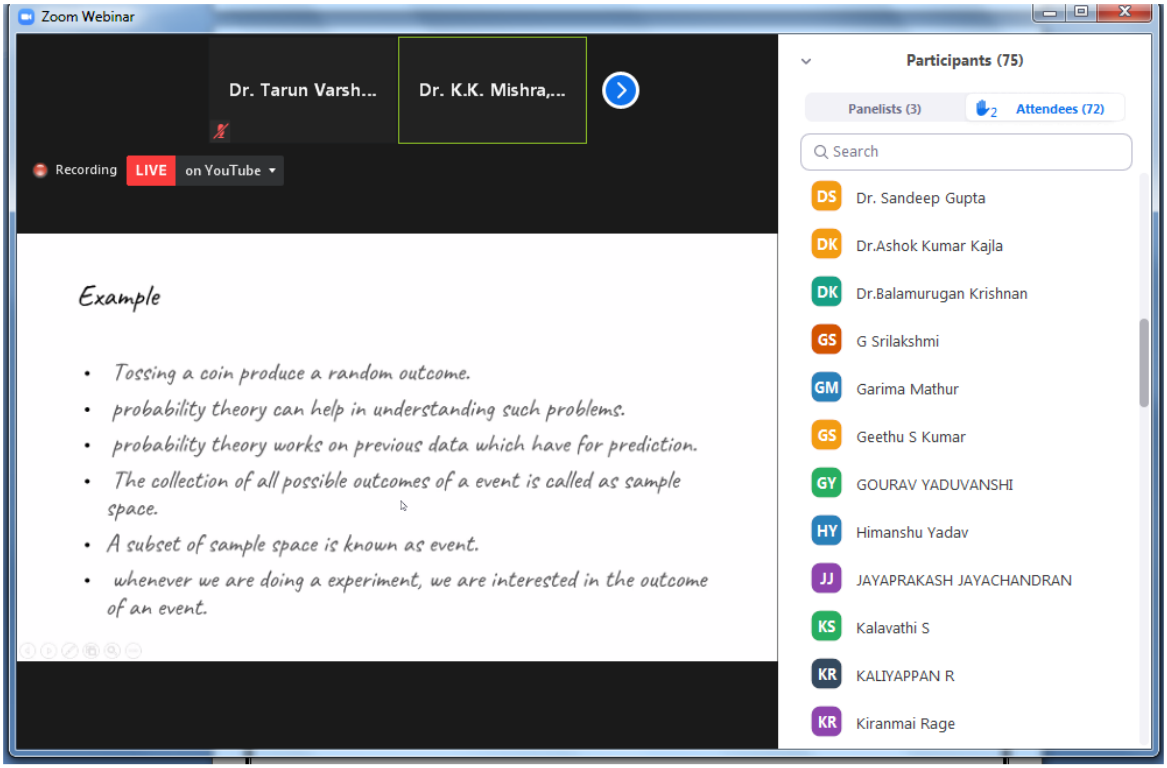

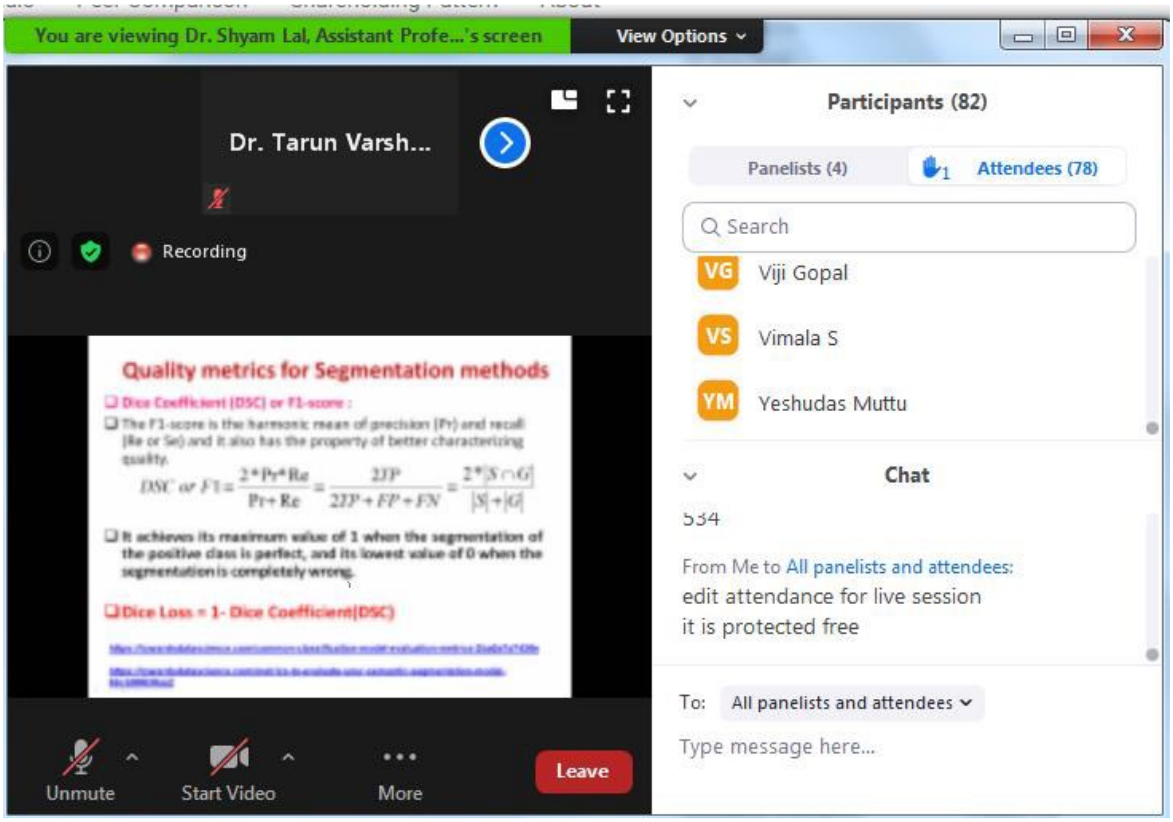

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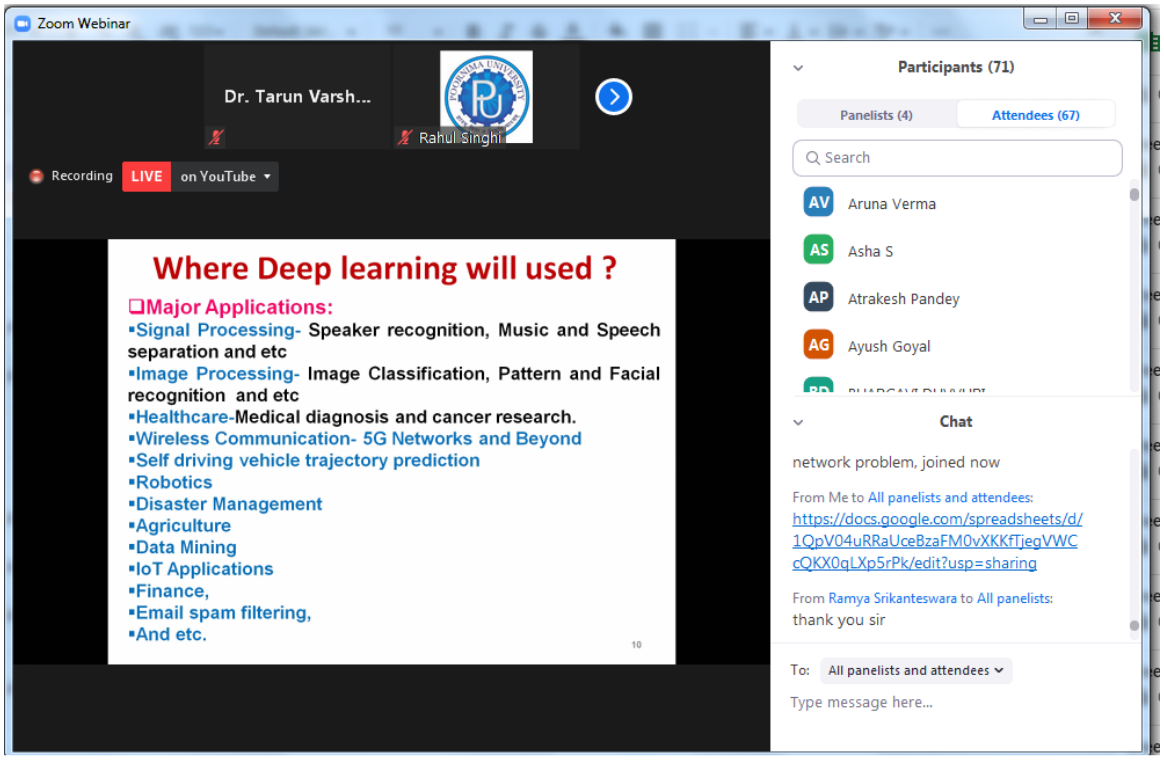

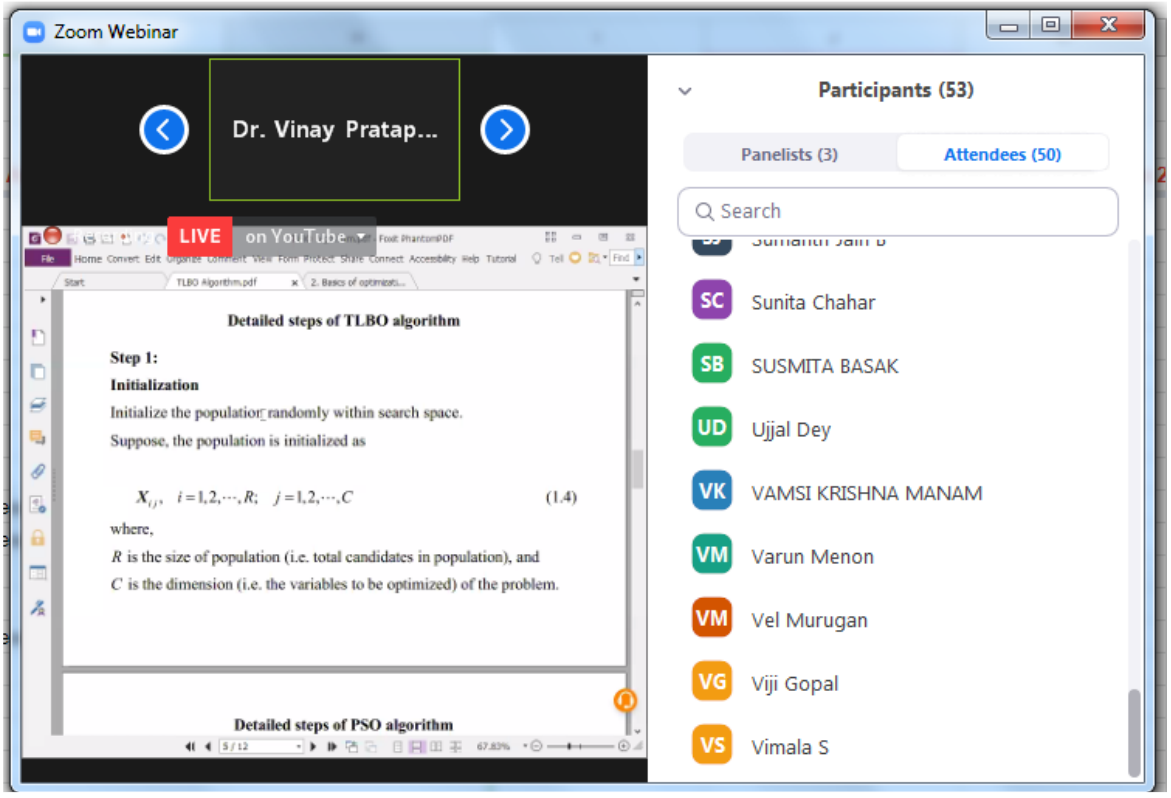

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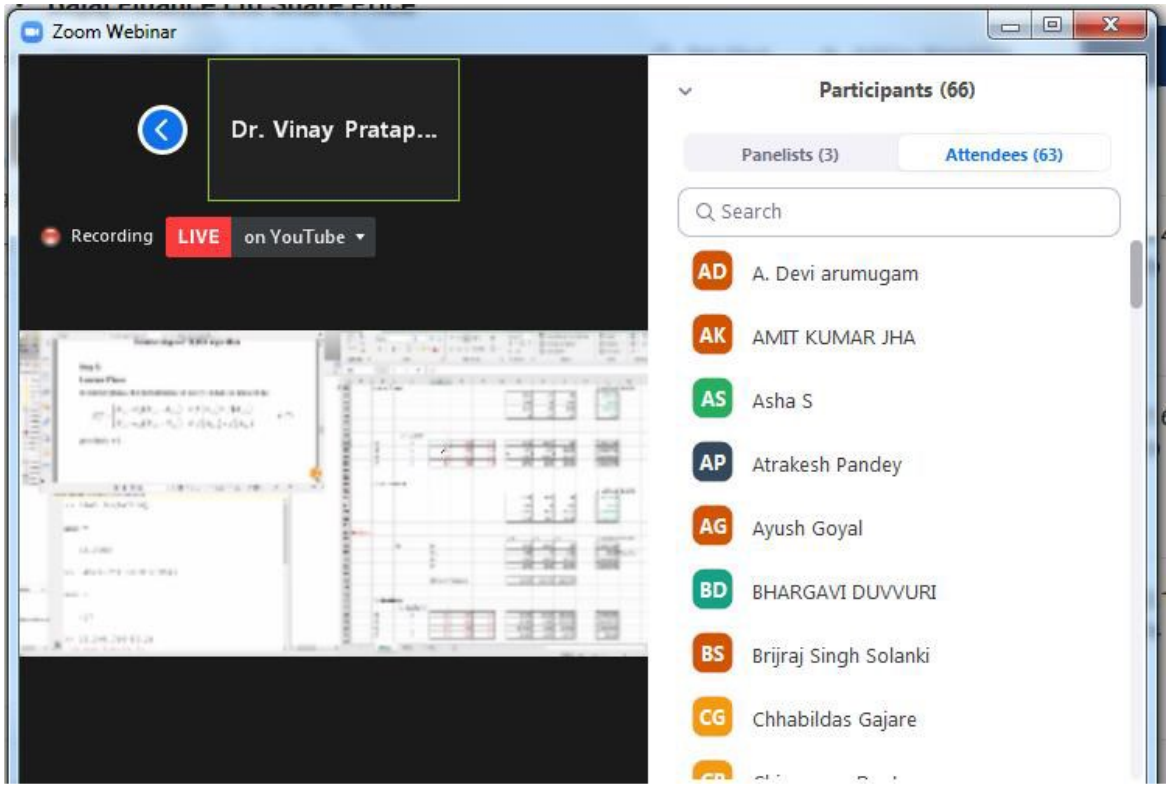

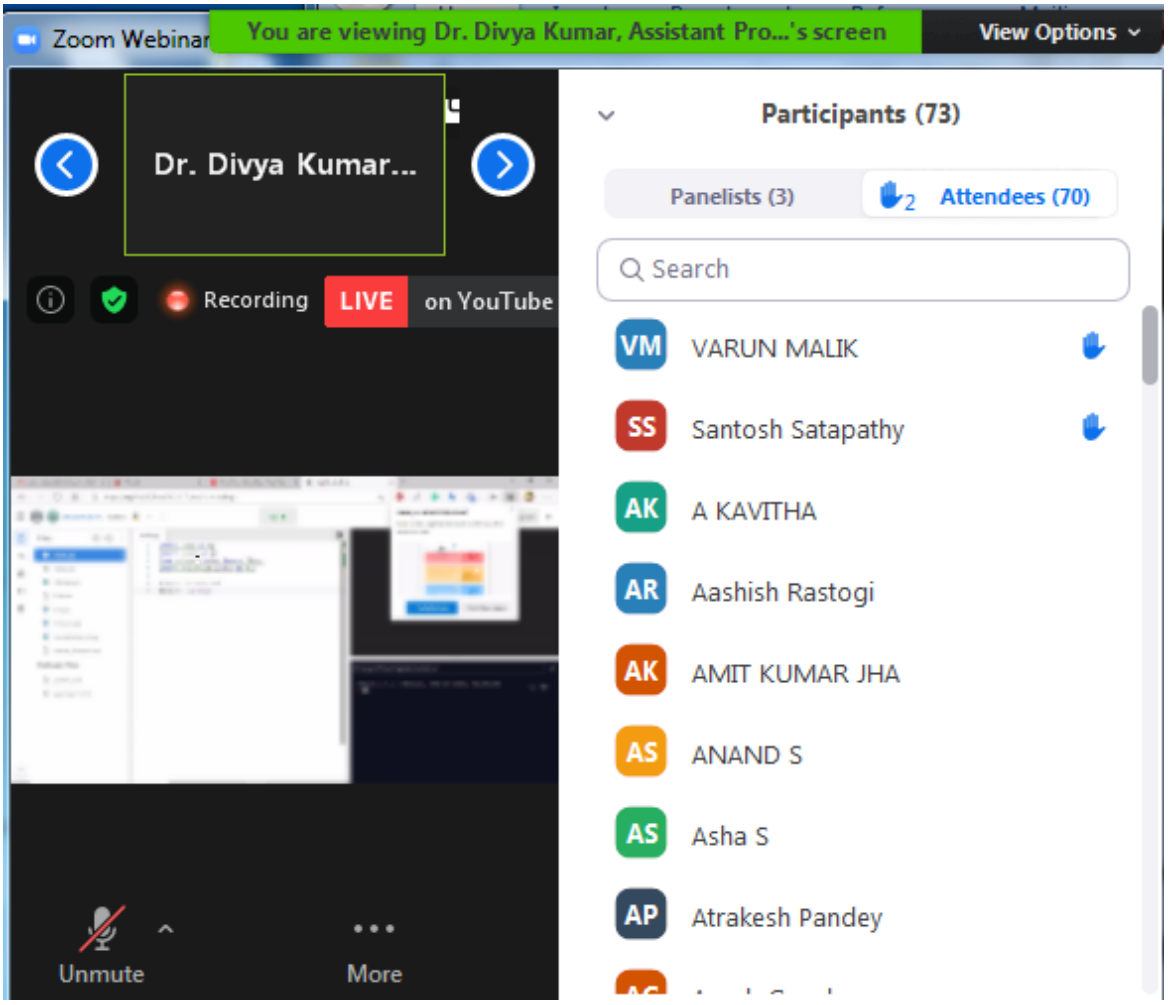

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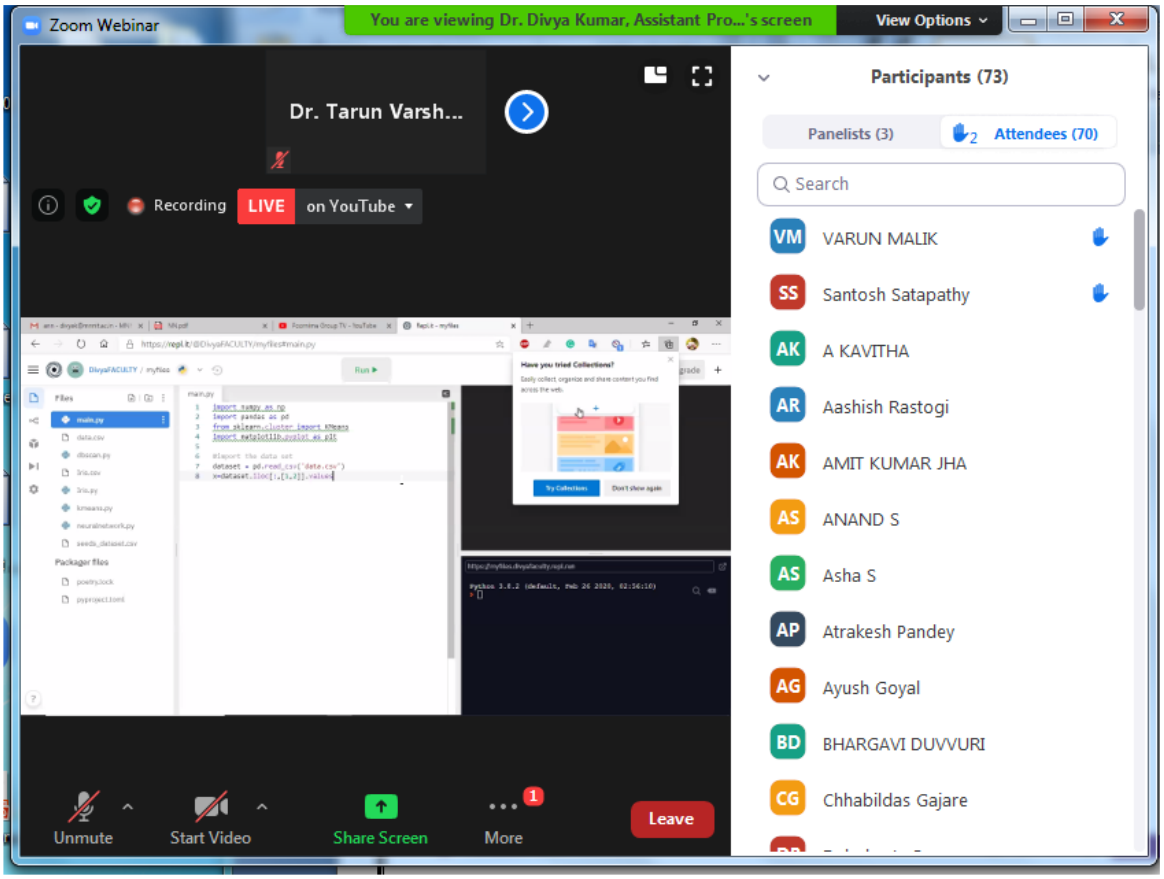

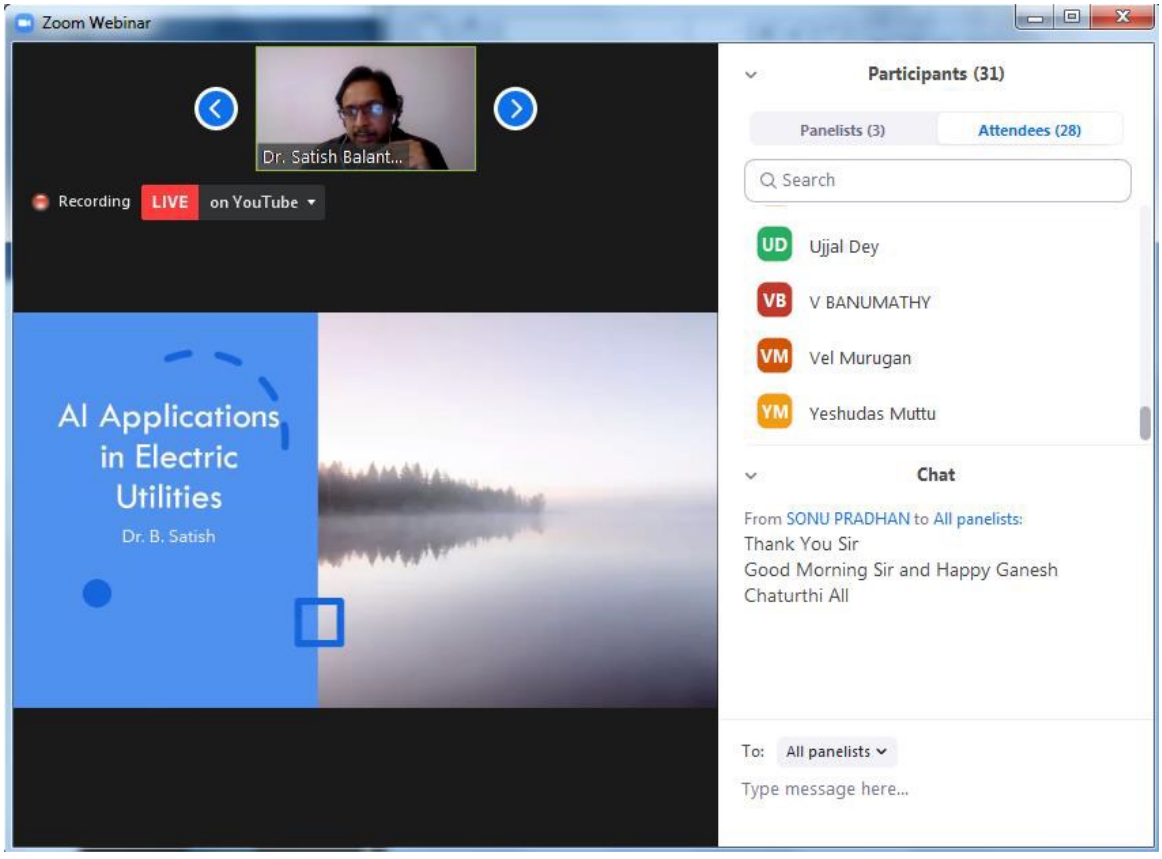

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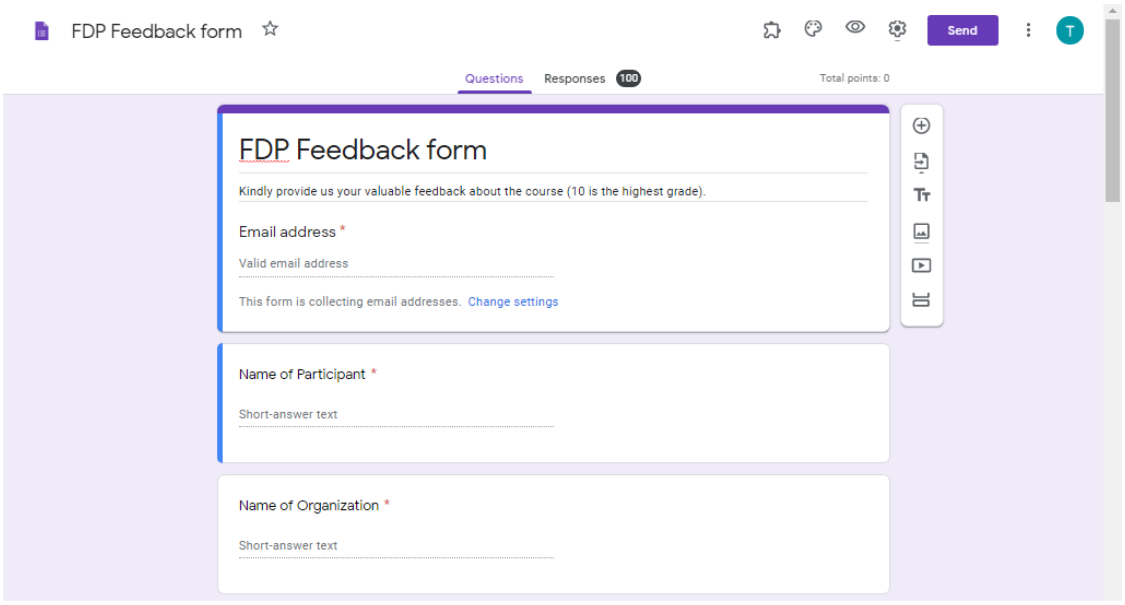
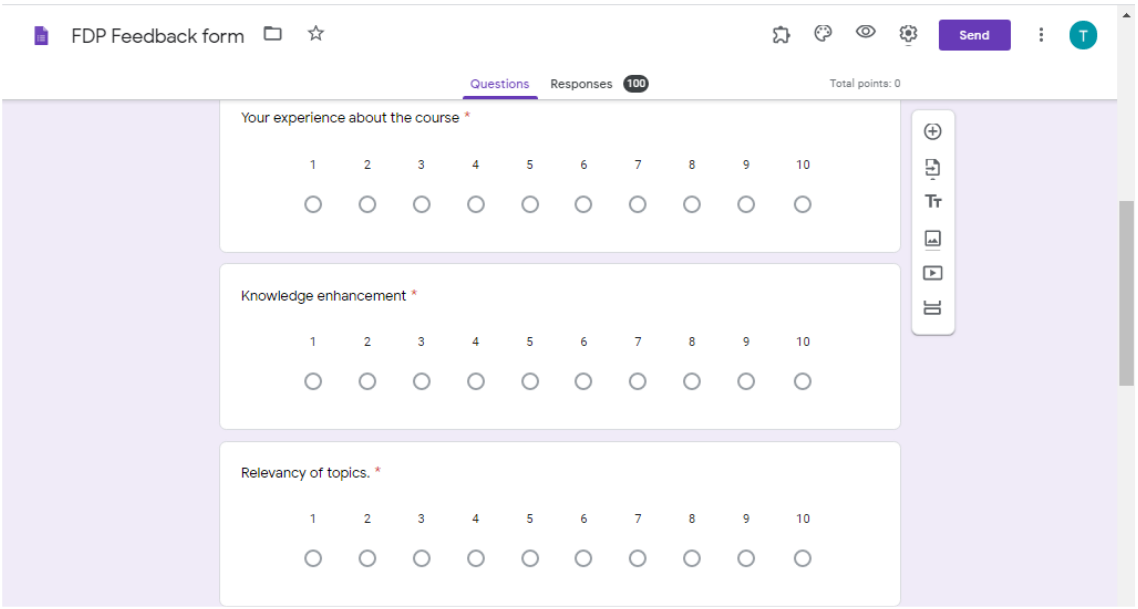
- **FEEDBACK FORM FORMAT:**





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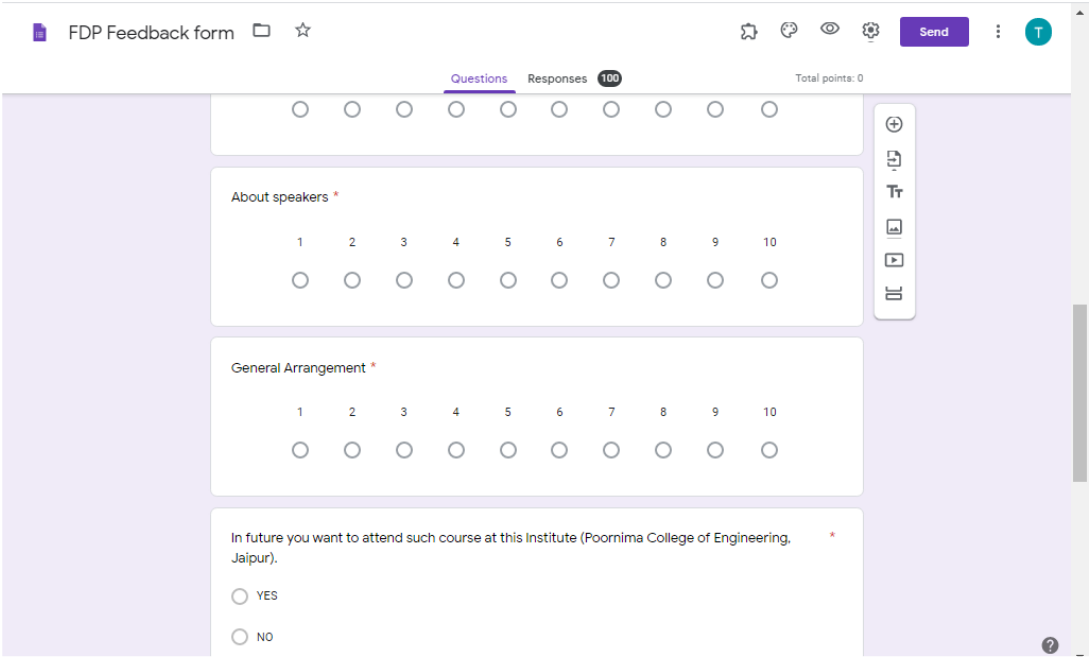
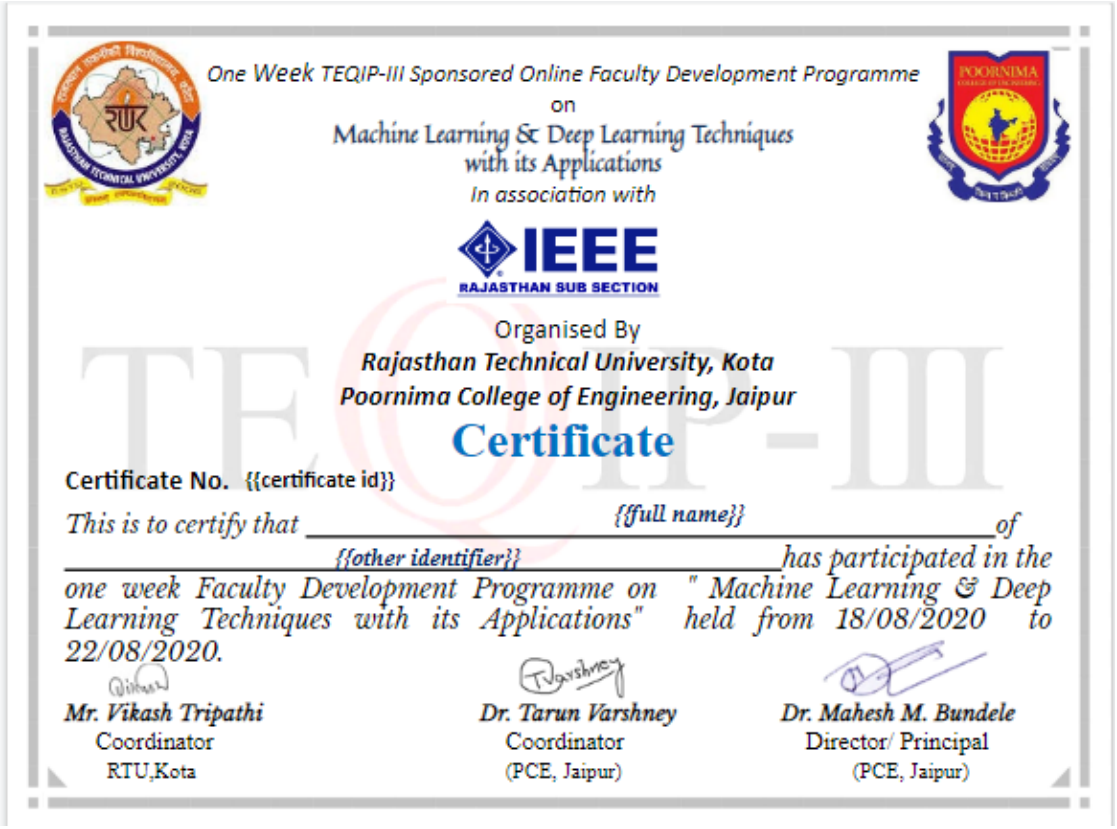


- **CERTIFICATE FORMATE:**



One Week TEQIP-III Sponsored Online Faculty Development Programme
on
Machine Learning & Deep Learning Techniques
with its Applications
In association with

IEEE
RAJASTHAN SUB SECTION

Organised By
Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur

Certificate

Certificate No. {{certificate id}}

This is to certify that {{full name}} *of* {{other identifier}} *has participated in the one week Faculty Development Programme on " Machine Learning & Deep Learning Techniques with its Applications" held from 18/08/2020 to 22/08/2020.*

Mr. Vikash Tripathi	*Dr. Tarun Varshney*	*Dr. Mahesh M. Bundele*
Coordinator	Coordinator	Director/ Principal
RTU,Kota	(PCE, Jaipur)	(PCE, Jaipur)

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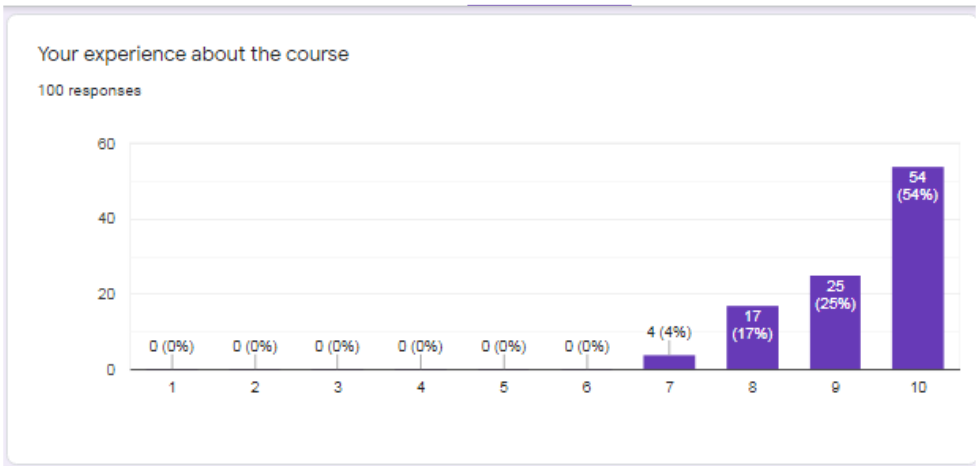
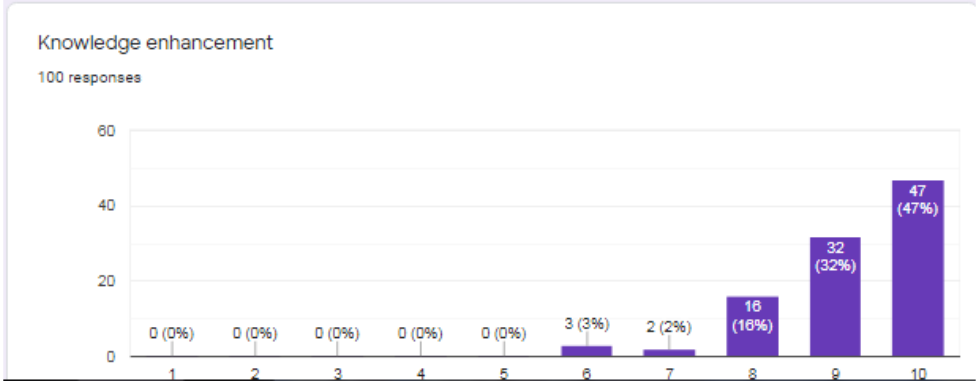
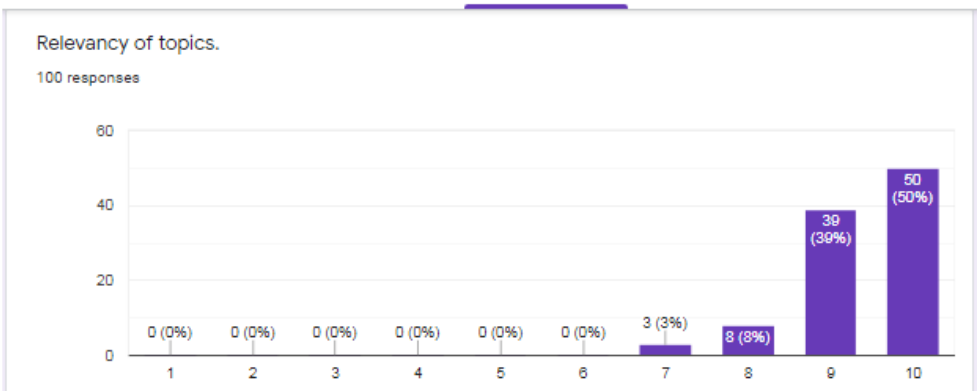
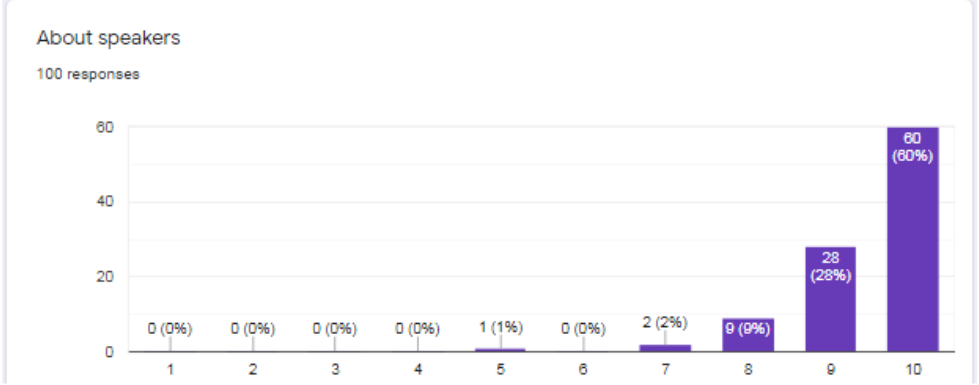
- **FEEDBACK ANALYSIS:**









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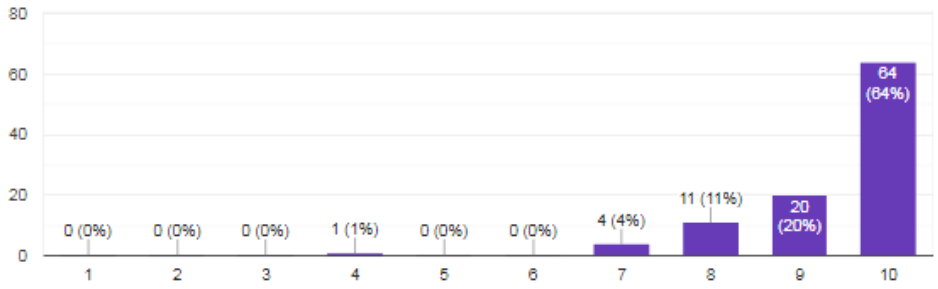
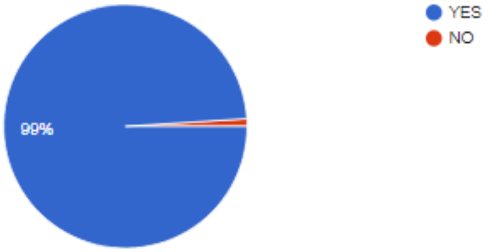
General Arrangement

100 responses



In future you want to attend such course at this Institute (Poornima College of Engineering, Jaipur).

100 responses



Knowledge gain by the course

100 responses

Yes
Good
Machine Learning
good
yes
DL
Great
Excellent
Lots of learning

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Topic that can be covered in the next course

100 responses

AI

Blockchain

Data Science

IOT

AI

Machine Learning

Python

yes

Virtual and augmented reality.

Knowledge gain by the course

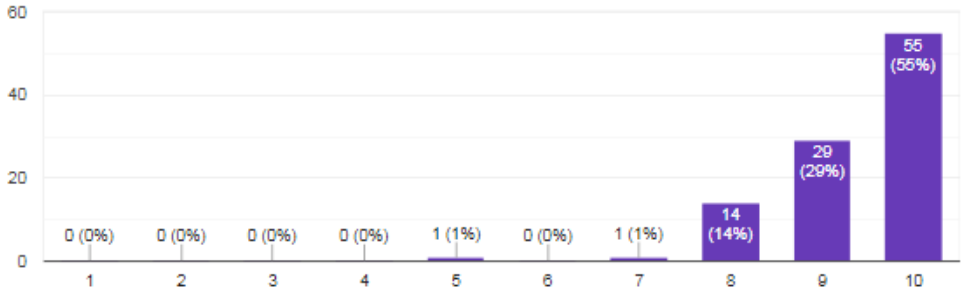
100 responses

Yes

Good

Overall experience of the course

100 responses



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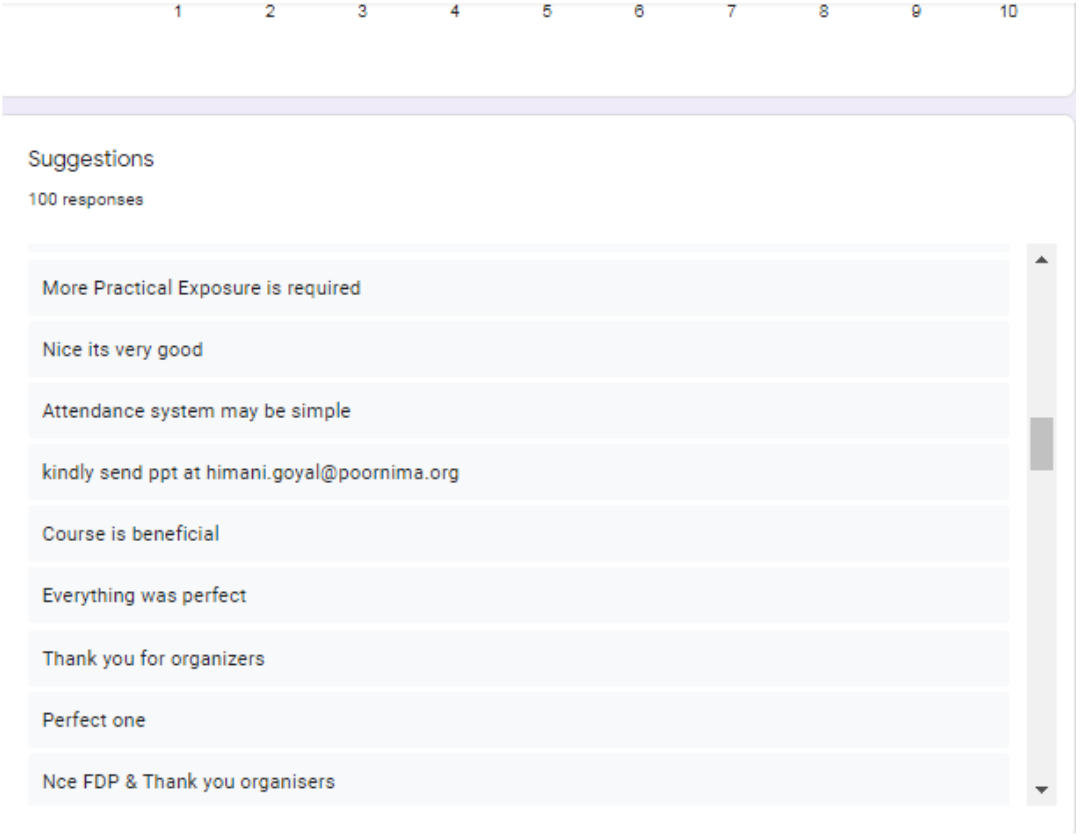

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	Narendran P	Gobi Arts & Science College	[illegible] am

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68.	SUSMITA BASAK	Aliah university	DUMDUM
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89.	Dr.Deepika chauhan	Poornima college of Engineering	Jgatapura
90.	Dr. Pravin M. Sonwane	Poornima College Of Engineering, Jaipur	Jaipur
91.	Narendra Singh Pal	Moradabad Institute of Technology Moradabad	Dett. of ECE , Moradabad Institute of Technology Moradabad UP
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99.	Nafi'u Abdulkadir	University of Leipzig	Augustusplatz, Leipzig Germany
100.	MANU SINGH	KDK ENGINEERING COLLEGE NAGPUR	Nandanvan Nagpur

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