



# ANAND PHARMACY COLLEGE

(Managed by Shri Ramkrishna Seva Mandal)

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*Dedication towards Pharmacy*



**Joint AICTE-GTU Sponsored e-Faculty  
Development Programme on  
“A future of Artificial Intelligence in Healthcare  
System: An Advanced Data Mining Tool”**

*Report*

*Organized by Anand Pharmacy College, Anand*

*March 07-12, 2022*



Joint All India Council for Technical Education – Gujarat Technological University  
Sponsored One Week  
e-Faculty Development Programme on  
A future of Artificial Intelligence in Healthcare System: An Advanced Data Mining  
Tool Organized by Anand Pharmacy College, Anand  
(March 07-12, 2022)  
e-FDP Report

**Joint All India Council for Technical Education–**  
**Gujarat Technological University**    
**Sponsored One Week**  
**e-Faculty Development Programme**  
on  
**A future of Artificial Intelligence in Healthcare System:  
An Advanced Data Mining Tool**

**March 07-12, 2022**

**Coordinator**  
Dr. Hardik Rana  
**University Coordinator**  
Dr. Sarika Srivastava

**Convener and Principal**  
Prof. (Dr.) Tejal Gandhi

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 <p align="center"><b>Keynote Speaker</b></p> <p><b>Prof. (Dr.) Bhupinder Singh Bhoop</b> Professor, Panjab University, Chandigarh</p>	 <p align="center"><b>Keynote Speaker</b></p> <p><b>Prof. (Dr.) Atmaram P. Pawar</b> Professor &amp; Principal, Poona College of Pharmacy, Bharati Vidyapeeth</p>
 <p align="center"><b>Keynote Speaker</b></p> <p><b>Dr. Ranjit Barshikar</b> CEO, QbD / cGMP Consulting (Biopharma / Pharma), Quality Adviser - United Nations MPP Geneva</p>	 <p align="center"><b>Keynote Speaker</b></p> <p><b>Prof. (Dr.) L. D. PATEL</b> Adjunct Professor, Parul Institute of Pharmacy</p>
 <p><b>Shri Padmin Buch</b> Senior Advisor, Projects and IPR, Director, Troikka Pharmaceuticals Ltd.</p>	 <p><b>Prof. (Dr.) Ketan Kotecha</b> Dean &amp; Director, Symbiosis Institute of Technology</p>
 <p><b>Prof. (Dr.) Sanjay Chauhan</b> Director, Graduate School of Pharmacy (GSP), Gujarat Technological University</p>	 <p><b>Prof. (Dr.) Jolly Parikh</b> Principal &amp; Professor, A. R. College of Pharmacy and G.H. Patel Institute of Pharmacy</p>
 <p><b>Prof. (Dr.) Tejal Mehta</b> Professor and Head in Department of Pharmaceutics, Nirma University</p>	 <p><b>Dr. Jignesh Patel</b> Senior Director, Clinical Pharmacology and Core Laboratories, CBCC Global Research</p>
 <p><b>Mr. Bhautik Sheth</b> Founder of iVIPANAN Digital Marketing and Management Services</p>	 <p><b>Prof. (Dr.) Priti Srinivas Sajja</b> Professor, P G Department of Computer Science and Technology, Sardar Patel University</p>
 <p><b>Dr. Hardik Rana</b> Associate Professor, Anand Pharmacy College</p>	 <p><b>Prof. (Dr.) Vaishali Thakkar</b> Professor and Research Director, Anand Pharmacy College</p>
	 <p><b>Ms. Dipika Chavda</b> Associate Professor, Anand Pharmacy College</p>

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### **OUTCOME OF THE E-FDP**

- This e-FDP on ANN & AI provided the exposure on various thrust areas of research and recent need of the hour like pharmaceutical optimizing processes, imitating the process of natural evolution and understand the important optimization tools for several real world applications in production of pharmaceutical products.
- Exposure to AI software provided, insights related to Multivariate calibration approach. Also practical training session on software was included during lecture session.
- ANN has attracted the attention of many computer scientists and have been successfully applied to solve a multitude of problems in diverse areas of sciences, engineering and business. However, pharmaceutical scientists are not fully aware of the great potential of this novel pattern-recognition technology. Applications of ANNs in the pharmaceutical field have been of increased interest due to their ability to model process that cannot be adequately represented using classical statistical methods. The ANNs do not need special computer as neural nets are described using mathematical models and implemented using ordinary computer software. Training time for networks was long but considerably advantageous.
- ANNs are an improvement over response surface methodology because they allow incorporation of literature and experimental data to solve common problems in pharmaceutical industry. It is capable of solving problems involving complex pattern recognition, which is advantageous in pharmaceutical product development. The use of artificial neural network in pharmaceutical research drug discovery is growing at a fast rate with very promising prospects.
- Pharmaceutical industries are rapidly developing industry during the past few decades. Various unit operation are performed such as drying, fermentation, evaporation and sterilization to produce a product with uniform, consistent and reliable product.

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- Although optimization problems arise in a variety of situations during production. Process optimization has been the key issue to pharmaceutical scale production to maintain operating conditions, increase product yields and to ensure product quality. Optimization method or model is an important step to decide suitable parameters for processes which help in determining the input variables and most suitable process for desired quality product.
- Optimum design methods combine the optimization algorithms with the computer simulations to find multiple optimal solutions with few number of trials.
- This FDP gave momentum to the pharmaceutical education, research and ultimately will lead to betterment in patient care in Gujarat and India.
- Researchers were abreast themselves of the new research areas and targets being explored. During networking sessions scientists communicated with the experts in the field which will help to address the issues and thus solutions can be sought.

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## INAUGURATION

# e - Inauguration Invitation

## ANAND PHARMACY COLLEGE, ANAND

Cordially invites you to  
Inaugural function of

**Joint All India Council for Technical Education – Gujarat Technological  
University Sponsored One Week  
e-Faculty Development Programme**  
on  
**A future of Artificial Intelligence in Healthcare System: An Advanced Data  
Mining Tool**  
Date – March 07, 2022 & Time – 10.00 am



**Chief Guest**  
**Prof. (Dr.) Navin Sheth**  
Hon'ble Vice Chancellor,  
Gujarat Technological  
University



**President**  
**Shri Hemantbhai Patel**  
President, Shri Ramkrishna  
Seva Mandal



**Guest of Honour**  
**Dr. Bhupinder Singh  
Bhoop**  
Professor, Panjab University,  
Chandigarh

**Smt. Jyotsnaben K. Patel**  
Hon. Secretary,  
Shri Ramkrishna Seva Mandal

**Prof. Tejal R. Gandhi**  
Convener & Principal  
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[www.apc.ac.in](http://www.apc.ac.in) | [conference@apc.ac.in](mailto:conference@apc.ac.in)

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## e - Inauguration Schedule

- ❖ Prayer
- ❖ Welcome Address by Smt. Jyotsnaben Patel  
Hon. Secretary, Shri Ramkrishna Seva Mandal
- ❖ Address by Dr. Bhupinder Singh Bhoop  
University Institute of Pharmaceutical Sciences, Panjab  
University, Educational Institution, Chandigarh
- ❖ Key Note Address by Prof. (Dr.) Navin Sheth  
Hon'ble Vice Chancellor- Gujarat Technological University
- ❖ Presidential Remarks by Shri Hemantbhai Patel  
President, Shri Ramkrishna Seva Mandal
- ❖ Vote of Thanks by Dr. Tejal R. Gandhi  
Convener & Principal Anand Pharmacy College



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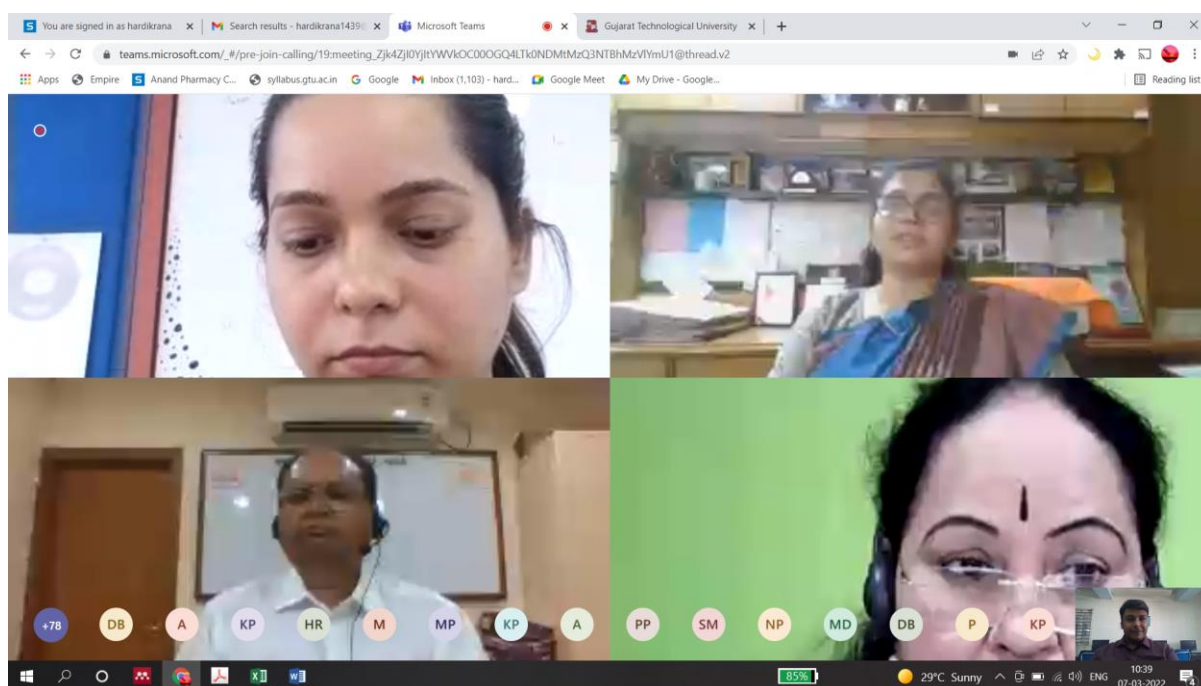
Session begin with the inaugural function. Ms. Ruby Christian introduced all the eminent guests of the function. The e-FDP was honoured by the presence of chief guest; Prof. (Dr.) Navin Sheth, Hon'ble Vice Chancellor, Gujarat Technological University and guest of honour Dr. Bhupinder Singh Bhoop, Professor, Panjab University, Chandigarh. Total 120 delegates across Gujarat from various academic institutions were joined virtually for e-FDP.





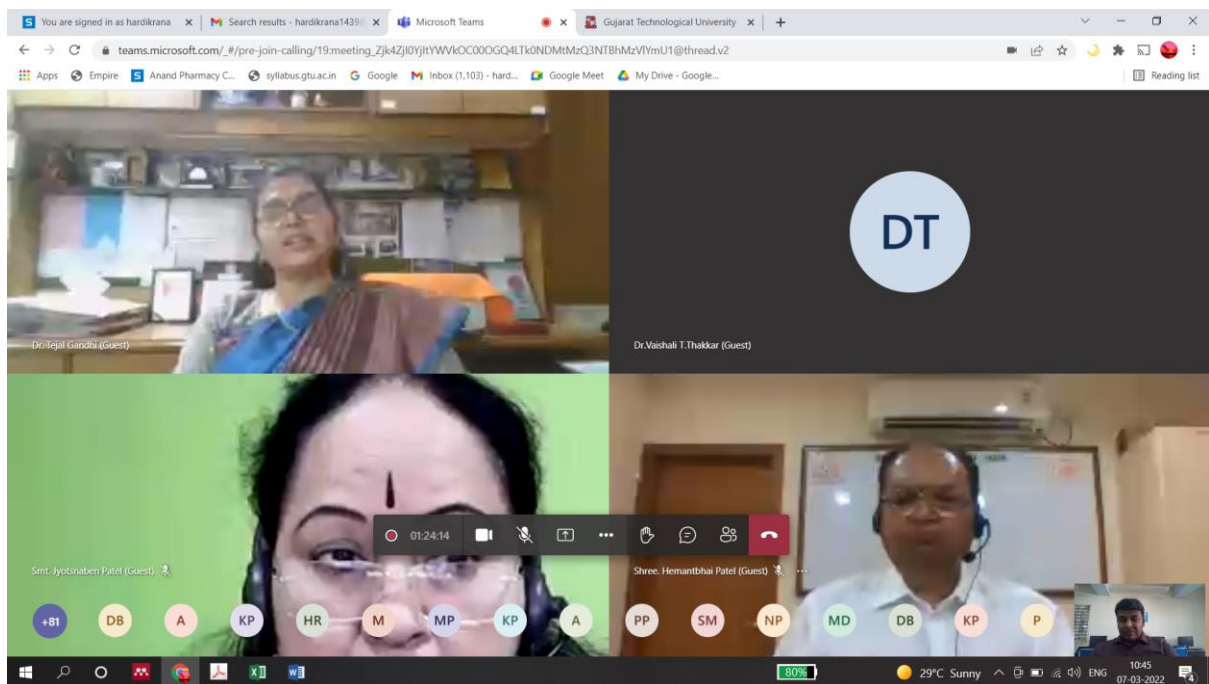
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Orientation of the e- FDP and its theme was given by Smt Jyotsnaben Patel, Hon. Sec of Shri RamKrishna Seva mandal (SRKSM). Session was succeeded by the oration of Prof. Bhoop. He in his brief address mentioned the need of research in the arenas where the resource is scanty. This research attitude will lead to the product development contrary to the research in areas where plenty of data's are available leading only to skill development. It was a short but a powerful message for all the researchers across the world.

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Shri. Hemantbhai Patel Sir, president, SRKSM gave the presidential remarks followed by vote of thanks by Dr. Tejal R. Gandhi, Principal, APC and convenor of the event. This marked the ending of the inaugural session of One week e-FDP.



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**DAY 1: 07/03/2022**

**Session 1**



**Prof. (Dr.) Bhupinder Singh Bhoop**  
Professor, Panjab University, Chandigarh

**Title: Emerging Computational Paradigm: Pivotal Role in Systematic Development of Drug Product**

**Abstract:**

Session focused on the concept of use of computerized software for upcoming era in the product development. Sir has focused on applicability of artificial intelligence in the field of healthcare system. Quality by Design is one of the most important aspect in the product development. How researcher can choose critical manufacturing variables and critical process parameters for the design? The importance of critical quality assurance has discussed. The IVIVC is also an important tool for the development of drug product.

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## Session 2



**Prof. (Dr.) L. D. PATEL**

Adjunct Professor, Parul Institute of Pharmacy

### **Title: Artificial Neural Network: An Introduction**

#### **Abstract:**

Intelligency is God's Gift, it varies from person to person, time to time. Why? We learn at every moment by our experience. Learning is a distinct process of brain and it contains > 100 billion neurons which are interconnected.

AI is the ability of a machine/computer to think and learn. To be called intelligent, a machine must produce responses that are indistinguishable from those of the human. NN is artificial representation of human brain that tries to simulate its learning process. ANN is interconnected groups of artificial

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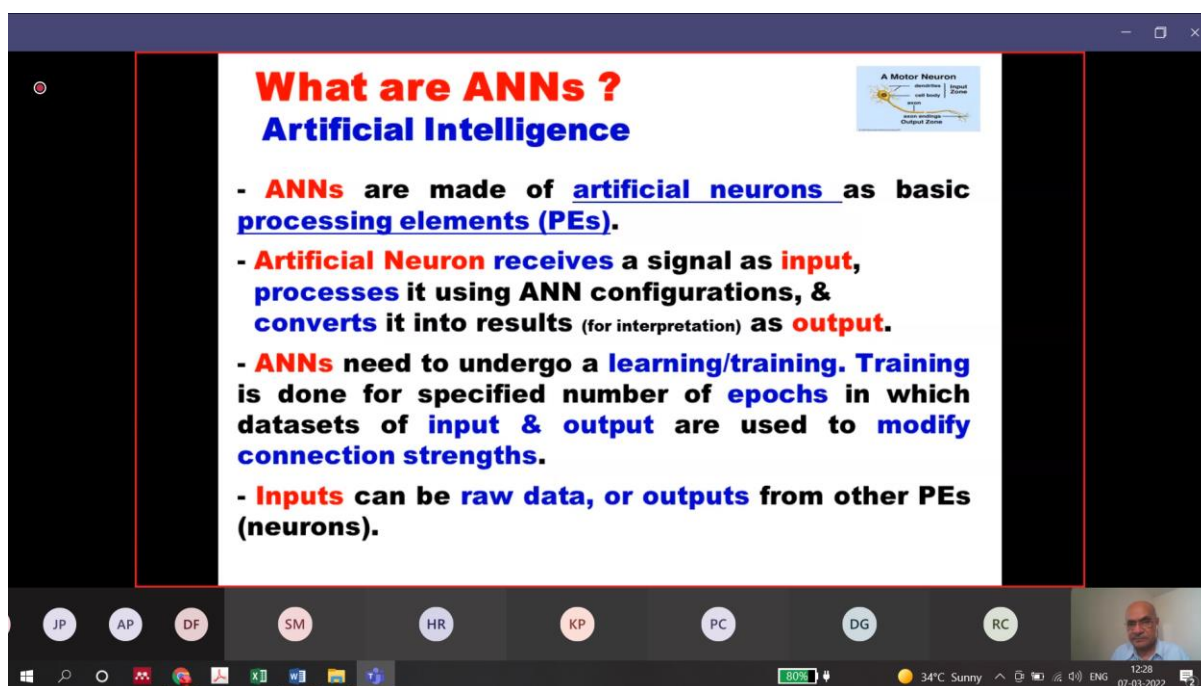
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neurons that use a mathematical/ computational model for information processing based on a connectionist approach. ANN is adaptive system that changes its structure based on information (external or internal) that flows through the network. ANN learns by example like human brain.

ANNs are made of artificial neurons as basic processing elements (PEs). Neuron receives a signal as input, processes it using ANN configurations, & converts it into results (for interpretation) as output. ANN is computational model that mimics how human brain works; it mimics certain processing capabilities of the human brain. It does not have a biological counterpart in brain & not so exactly resemble to brain. The input nodes decide the features of ANN, Output nodes are suitable to encode the output representation or Response. Transfer function is to solve the problem and hidden nodes allow a network to learn non-linear functions.

ANN is a very good statistical tool for many numeric & nonnumeric calculations. ANNs are known to be a powerful tool to simulate various non-linear systems and have been applied to numerous problems of considerable complexity in many fields, including engineering, psychology, medicinal chemistry, diagnostics, clinical pharmacy, and pharmaceutical research.

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**What are ANNs ?**  
**Artificial Intelligence**

- **ANNs** are made of **artificial neurons** as basic **processing elements (PEs)**.
- **Artificial Neuron** receives a signal as **input**, **processes** it using **ANN configurations**, & **converts** it into results (for interpretation) as **output**.
- **ANNs** need to undergo a **learning/training**. **Training** is done for specified number of **epochs** in which datasets of **input & output** are used to **modify connection strengths**.
- **Inputs** can be **raw data**, or **outputs** from other **PEs (neurons)**.

A Motor Neuron diagram showing: dendrites, Input Zone, Cell Body, Axon, Axon Sheath, Output Zone.

Participant icons: JP, AP, DF, SM, HR, KP, PC, DG, RC. System tray: 80% battery, 34°C Sunny, 12:28, 07-03-2022.

### Session 3



**Shri Padmin Buch**

Senior Advisor, Projects and IPR, Director, Troikaa Pharmaceuticals Ltd.

**Title: Industry 4.0 and Intellectual Property Rights – Context of Pharma & Healthcare**

**Abstract:**

Session was started with the importance of IPR in healthcare system. Industry 4 is mainly connected with the AI in industry. Discussion was focused of the innovation but there is the need to focus on the protection of innovation. Patentability criteria was discussed in AI based research. Protection of designing of different AI based software is also discussed. IoT based

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application is also developed by the incorporation of the AI. Discussion was ended that do not rely completely on machines.

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**Industry 4.0 and  
Intellectual Property Rights**  
Context of Pharma & Healthcare  
( IA, IOT, 3 D printing, etc)

**PADMIN BUCH**  
B.Pharm., MBA, CMC,  
PG Diploma in Patents Law  
March 07 , 2022

For preliminary discussions only  
Data and information are indicative

PH Buch

+53 DP AR RK MD HR DB DM UP M

**DAY 2: 08/03/2022**

**Session 4**



**Dr. Hardik Rana**  
Associate Professor, Anand Pharmacy College

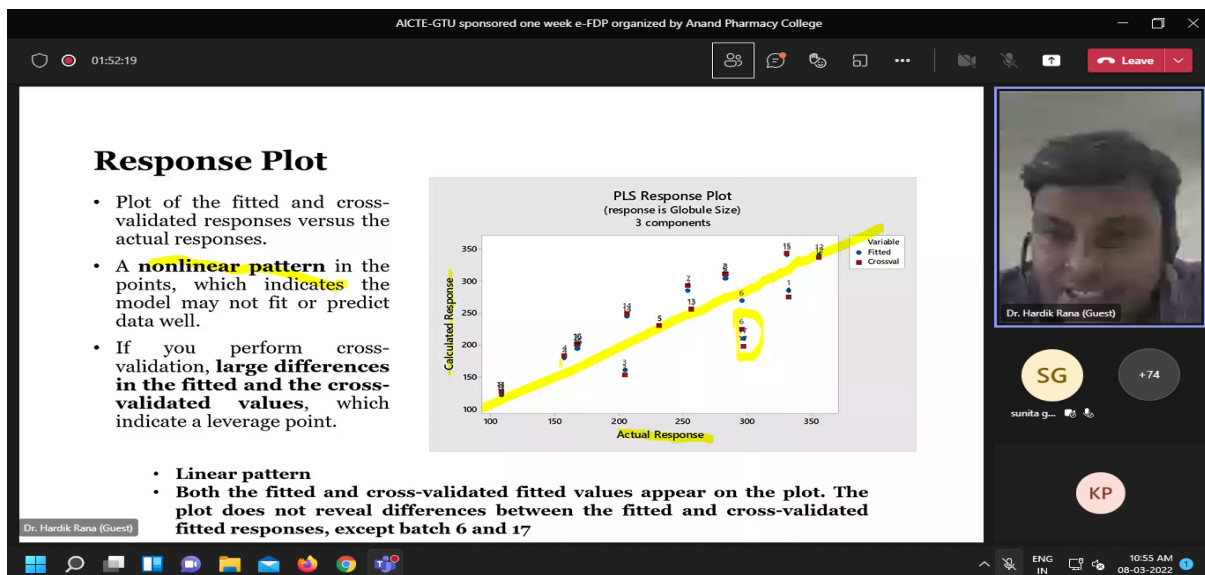
**Title: Demonstration of Applicability of PLS Regression – A Machine Learning Technique in Product Optimization**

**Abstract:**

Session started with the Artificial intelligence. Machine learning is one of the technique of AI. Partial least square Regression is a tool of Machine learning. PLS is mainly used for the

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optimization of product or useful to optimize the different parameter which affect the final quality of results. The demonstration of PLS was given by the Minitab software. Step wise demonstration with example was given in the session. Discussion was major on the interpretation of all the graphs and ended with the conclusion of the results.



The screenshot shows a Zoom meeting window. The main content is a slide titled "Response Plot" with the following text:

**Response Plot**

- Plot of the fitted and cross-validated responses versus the actual responses.
- A **nonlinear pattern** in the points, which indicates the model may not fit or predict data well.
- If you perform cross-validation, **large differences in the fitted and the cross-validated values**, which indicate a leverage point.

Below the text is a graph titled "PLS Response Plot (response is Globule Size) 3 components". The graph plots "Calculated Response" on the y-axis (ranging from 100 to 350) against "Actual Response" on the x-axis (ranging from 100 to 350). A yellow diagonal line represents the ideal fit. Data points are categorized as "Variable" (blue dots), "Fitted" (red squares), and "Crossval" (red squares). A yellow circle highlights a cluster of points around (280, 280) where the fitted and cross-validated values differ significantly from the diagonal line.

Below the graph, the text reads: "Both the fitted and cross-validated fitted values appear on the plot. The plot does not reveal differences between the fitted and cross-validated fitted responses, except batch 6 and 17".

The Zoom interface includes a video feed of Dr. Hardik Rana (Guest) on the right, a chat window with "SG" and "+74", and a bottom status bar showing "ENG IN" and "10:55 AM 08-03-2022".

### Session 5



**Dr. Jignesh Patel**

Senior Director, Clinical Pharmacology and Core Laboratories, CBCC Global Research

**Title: Application of Artificial Intelligence (Artificial Neural Networks) in Pharmaceutical Research**

**Abstract:**

Drug discovery and development process many times encounters complex problems, which may be difficult to solve by human intelligence. Despite advances in technology and very good understanding of biological systems; drug discovery and development process is still a



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lengthy, expensive, difficult and inefficient process with low rate of new therapeutic discovery. Artificial Intelligence is a tool which may help in solving complex problems in drug discovery and development process. Artificial Neural Networks (ANNs) are one of the Artificial Intelligence (AI) technologies used for solving complex problems in data mining. ANNs application has been demonstrated in primary virtual screening of compounds, quantitative structure activity relationship studies, formulation development, pharmacokinetics, pharmacovigilance data mining and in all other processes involving complex mathematical modelling. In this talk, the author is going to discuss the application of artificial neural network in drug discovery and development.

The screenshot shows a Zoom meeting interface. The main content is a presentation slide with the following text:

**Application of Artificial Intelligence  
(Artificial Neural Networks) in  
Pharmaceutical Research**

**Dr. Jignesh Patel**  
Senior Director: Clinical Pharmacology & Core Laboratories

**CBCC** GLOBAL RESEARCH

Date of Presentation: 08-Mar-2022  
Audience: AICTE-GTU Sponsored Faculty Development Programme at Anand Pharmacy College  
Disclaimer: The views / opinions expressed in the following slides are of individual presenter only and does not necessarily represent those of any organization.

1

The Zoom interface includes a top bar with the meeting title "AICTE-GTU sponsored one week e-FDP organized by Anand Pharmacy College", a timer at 02:26:36, and a "Leave" button. On the right, there are video thumbnails for participants, including "Miss. Shreya Sh..." and "KP". The bottom of the screen shows the Windows taskbar with the time 11:29 AM on 08-03-2022.

**DAY 3: 09/03/2022**

**Session 6**

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**Prof. (Dr.) Tejal Mehta**

Professor and Head in Department of Pharmaceutics,  
Nirma University

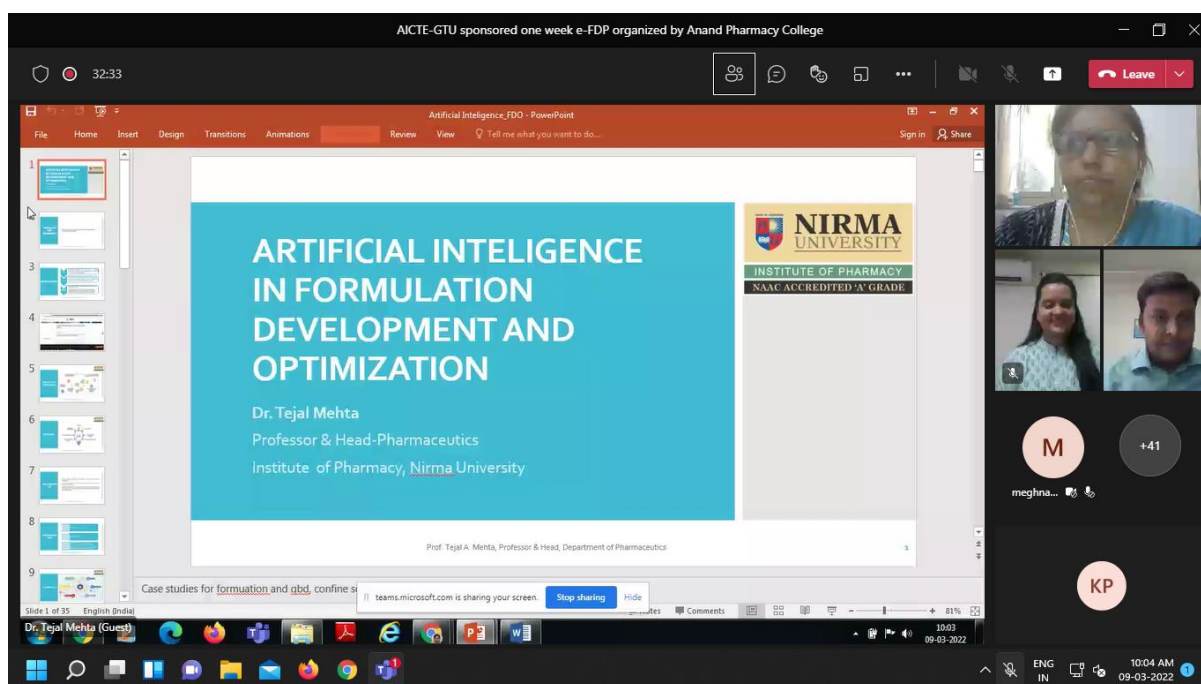
**Title: Artificial Intelligence in Formulation Development and Optimization**

**Abstract:**

The digitalization of data is done since long by Pharmaceutical industry is using digitalization since long for cost-effectiveness and faster production with higher efficiency. However, digitalization shows challenges in terms of acquiring, scrutinizing, and applying knowledge to solve complex clinical problem. The Artificial intelligence (AI) by the aid of symbolic programming helps in handling of large volume of data with improved automation which is need in formulation development as well as in various facets of pharmaceutical industry. The presentation covers the importance and applications of AI in formulation of various dosage forms as well as its optimization using QbD with its challenges and opportunities.

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**Session 7**

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**Prof. (Dr.) Priti Srinivas Sajja**  
Professor, P G Department of Computer Science and  
Technology, Sardar Patel University

**Title: Machine Learning in Disease Diagnosis**

**Abstract:**

Priti Mam had discussed about the Limitations of AI, Machine Learning Techniques (introduction), and Case studies thru ANN, Deep Learning, GAN, Neuro-Fuzzy systems, and other hybrid systems. Disease diagnosis for flu, fever, Covid-19 lung images, plant and skin diseases, etc; research ideas and future work. Discussion was much more on the case studies in which AI can work effectively. Mam has discussed that how AI model is generated and how it works to get the final conclusion.

The screenshot displays a Zoom meeting window. The main content is a presentation slide titled "Machine Learning in Disease Diagnosis". The slide has a navigation menu on the left with items: Introduction, Artificial intelligence, KBS, Expert System Examples, Limitations of KBS, Machine Learning (highlighted in green), Cases, and Acknowledgement. The main body of the slide features a timeline from the 1950's to the 2017's. Three key concepts are highlighted in boxes: "ARTIFICIAL INTELLIGENCE" (Engineering of making Intelligent Machines and Programs), "MACHINE LEARNING" (Ability to learn without being explicitly programmed), and "DEEP LEARNING" (Learning based on Deep Neural Network). A URL is provided at the bottom: <https://www.edureka.co/blog/what-is-deep-learning>. The Zoom interface shows the presenter "Priti Srinivas Sajja (Guest)" and a participant "Dr. Hardik R...".

**Session 8**

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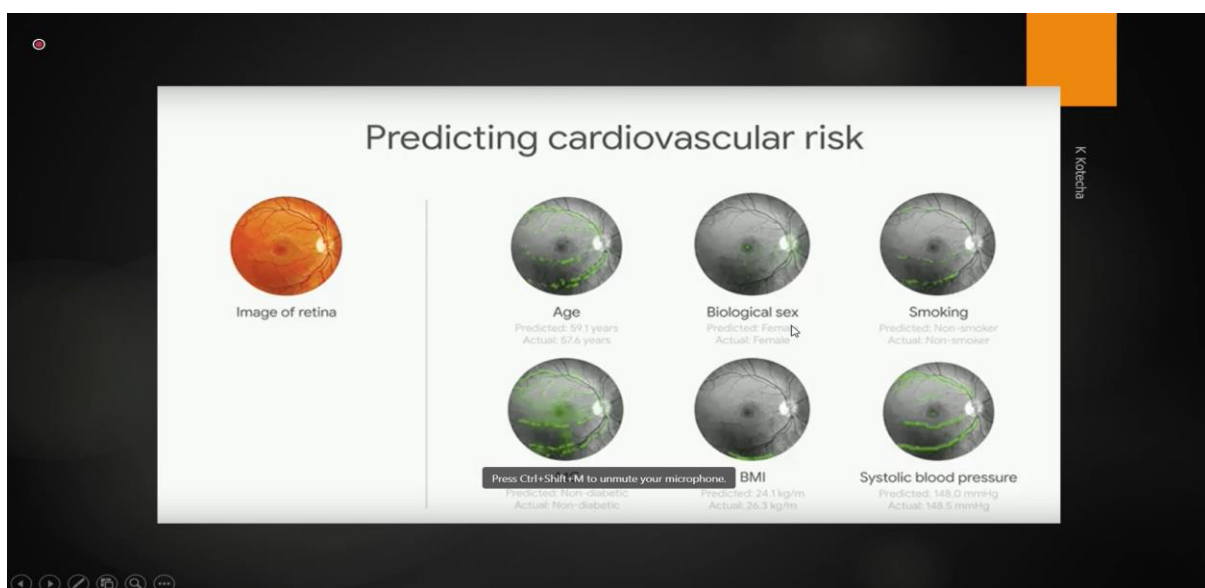


**Prof. (Dr.) Ketan Kotecha**  
Dean & Director, Symbiosis Institute of Technology

**Title: Deploying Artificial Intelligence for Health care Application**

**Abstract:**

Session focused on applicability of AI in healthcare, diagnosis and therapeutics. Sir has also discussed the difference between the QbD and AI. Sir has given much more focus on the development of strong and accurate conclusion with the AI. Discussion was based on the real case study. Case study was based on the experience of his own research work. Sir has also developed many mobile applications. Sir has discussed that how AI is selecting the algorithm based on our input data, over fitting of data, under fitting of data and black box problem in AI.



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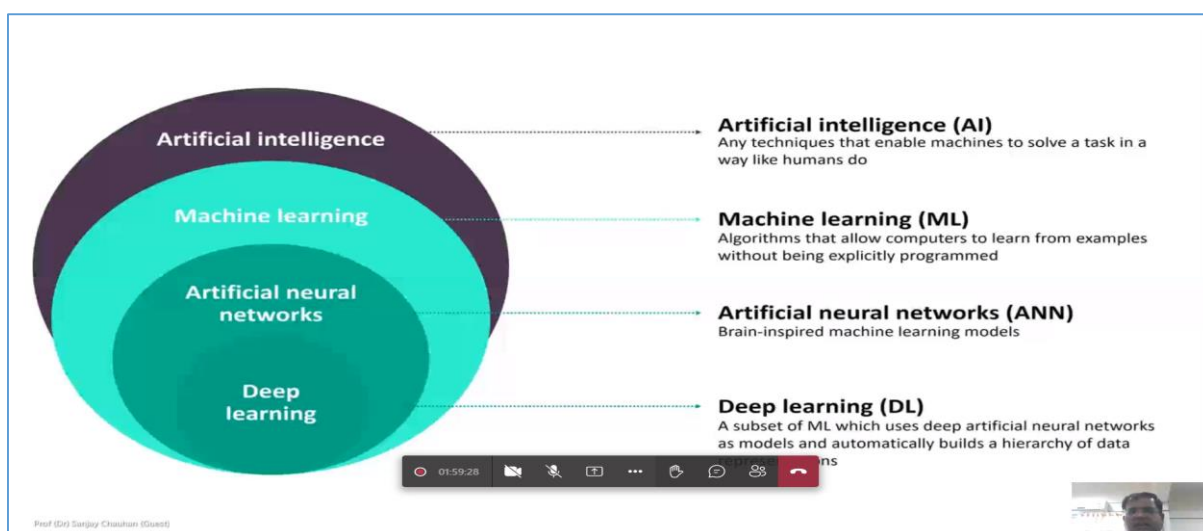
**Prof. (Dr.) Sanjay Chauhan**

Director, Graduate School of Pharmacy (GSP), Gujarat Technological University

**Title: AI in Drug Discovery and Development**

**Abstract:**

Sir has mainly discussed the application of AI in the Pharmaceutical industry. As an entrepreneur as well as academic profession, the discussion is much more on how you can commercialize your product? Even sir has discussed that how different industries has developed their product in the industry? Sir has focused that by the use of AI for the product development and its commercialization. Sir has focused that lifespan of total development was reduced from 15-20 years to 5 years only. The development of vaccine in the COVID era is mainly due to the computerization or due to the AI.



**Session 10**

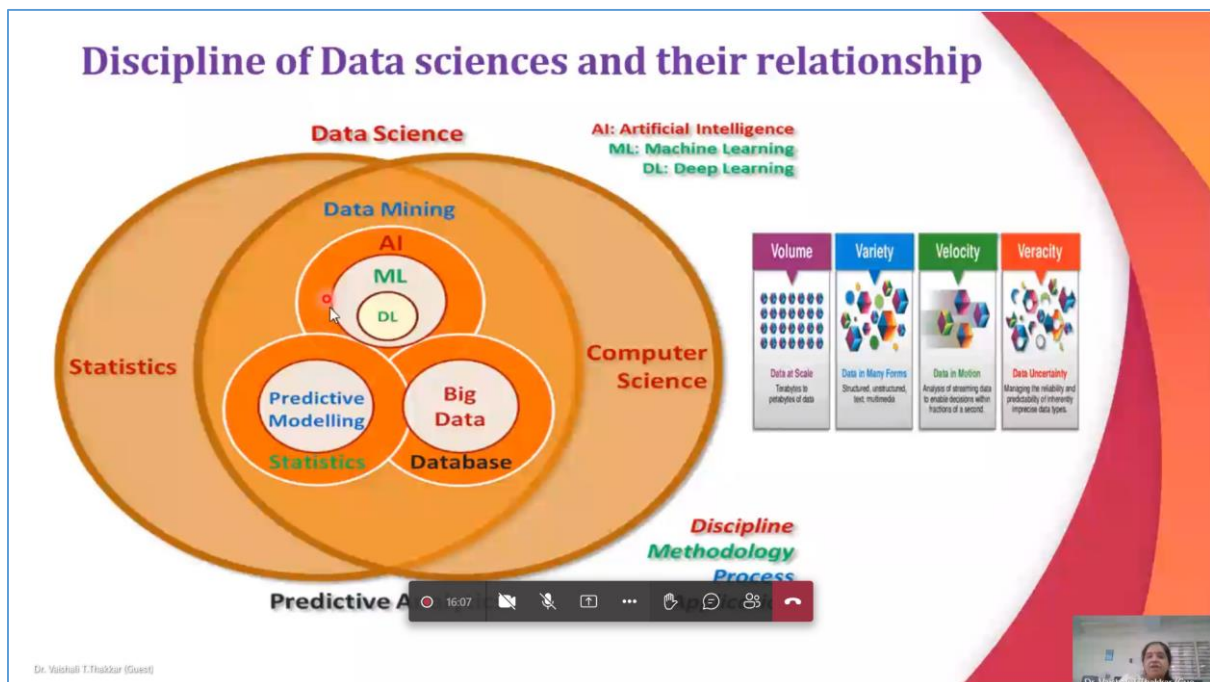
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**Prof. (Dr.) Vaishali Thakkar** Professor and Research  
Coordinator, Anand Pharmacy College

**Title: Applications of Artificial Intelligence (AI) and Machine Learning (ML) in  
Pharmaceutical Science**

**Abstract:** Dr. Vaishali had discussed the application of machine learning in the field of  
healthcare system. Mam had discussed about data mining and stages of knowledge discovery  
data mining. Selection of data, pre-processing of data, transformation of data, data mining  
algorithm and evaluation of data. The focus is also on the data mining techniques



Day-V

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*Session 11*



**Mr. Bhautik Sheth**

Founder of iVIPANAN Digital  
Marketing and Management Services

**Title: AI in Digital Marketing**

The changing algorithm of social networking sites and search engine is also changing the role of content. While pharma, healthcare/medical companies/hospitals want to leverage digital platforms for marketing, complying with AI based algorithm is very important. From social media to search engine and Google ads, there is a thin line between what is allowed and what is abandoned. The session will help marketers understand how to cope up with the dynamism of the digital platforms.

**WHY THIS TOPIC?**

- Digital is changing – constantly.
- Change is not year on year, month on month but it is daily, hourly.
- Marketing on internet is changing too – thanks to platforms

*Session 12*



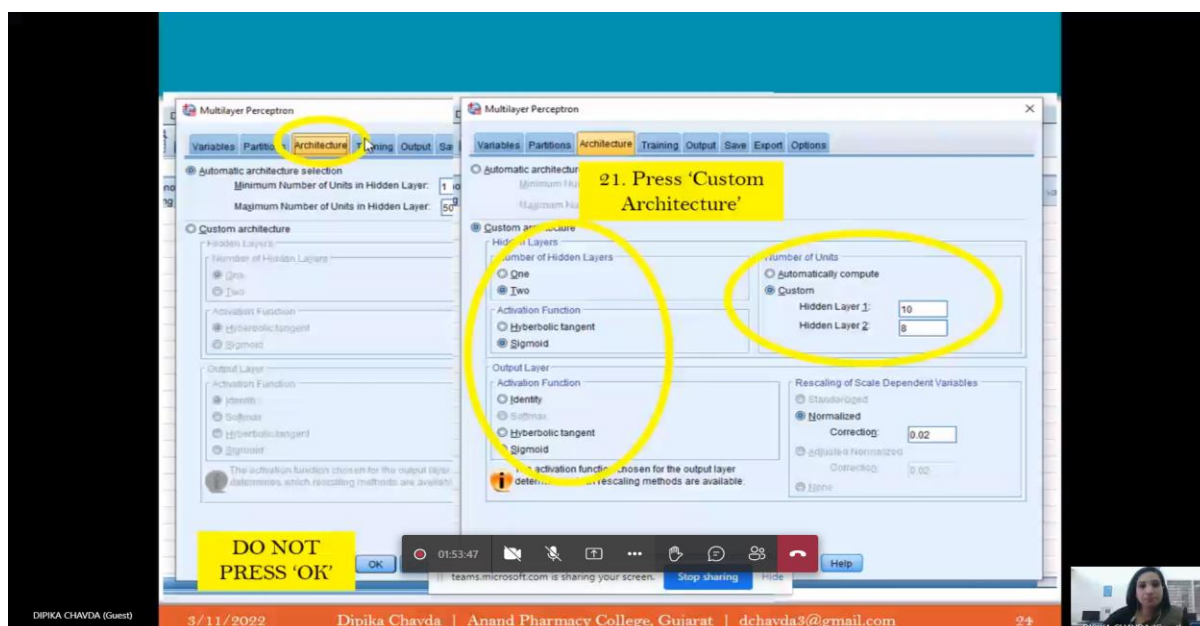
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**Ms.. Dipika Chavda**  
Associate Professor, Anand Pharmacy College

**Title: Demonstration of NeuroSolution in Optimizing Formulation Parameters**

The optimization procedure in formulation development is based on response surface methodology, which includes statistical experimental designs, multiple regression analysis, and mathematical optimization algorithms for seeking the best formulation under a set of constrained equations. The ANNs are computer programs that are designed to simulate some functions of the human brain using different learning algorithms that can learn from experience. Hence, ANN has been successfully applied to various pharmaceutical areas such as preformulation studies, pharmaceutical process development, formulation optimization, in-vitro-in-vivo correlation, and pharmacokinetic parameters prediction.



**Session 13**

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**Prof. (Dr.) Jolly Parikh**

Principal & Professor, A. R. College of Pharmacy and G.H. Patel Institute of Pharmacy

**Title: AI in Context to National Education Policy: A Brief Overview**

National education policy 2020 has brought radical transformations in the education system in India. Prime Minister Narendra Modi launched an initiative such as Artificial Intelligence or AI for All, on the first anniversary of National Education Policy, 2020. AI for All is an initiative that intends to create a basic understanding of Artificial Intelligence amongst every citizen of India. The concept of coding and machine learning should be introduced at a very young age as young minds have better grasping power. The education system in India will be benefitted by introduction of AI. The students will be able to apply their knowledge in any field be it agriculture, health science, medicine or commerce.



*Session 14*

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**Dr Ranjit Barshikar**

CEO, QbD / cGMP Consulting (Biopharma / Pharma),  
Quality Adviser - United Nations MPP Geneva

**Title: Increasing Use of Artificial Intelligence in Pharmaceutical Industry**

Dr. Ranjit had started the discussion with industry 4.0 to Pharma 4.0. The main focus of the session is how Pharmaceutical Industry can increase the use of AI in Pharmaceutical Industry. Sir has told that Pharma 4.0 start with automation of industry and ended with the data integrity. The plant should be developed by the use of different algorithm, intelligent control and automated data collection. Synchronize the Digital and Physical value system of industry to get better output.

Industry 4.0 → Pharma 4.0

ISPE

1st	2nd	3rd	4th
Mechanization, water power, steam power	Mass production, assembly line, electricity	Computer and automation	Cyber Physical Systems

42:55

Ranjit (Guest)

3

Ranjit (Guest)

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**Prof. (Dr.) Atmaram P. Pawar**  
Professor & Principal, Poona College of Pharmacy,  
Bharati Vidyapeeth

**Title: Interactive Teaching and Problem Based Assessment Tools for Implementation of NEP**

Dr. Pawar had discussed on how you can make interactive session in classroom. Also sir had discussed on problem based learning and its importance in the class. Sir has focused on Lifelong learning. Do not focus on quantity but focus on quality, sir has said. Sir has profoundly focused on knowledge based learning. Your teaching objective should be target based learning, think about the target that what you have to achieve. Value of thinking should be more important in teaching. Clap for logical thinking and not for recited definitions.

Teacher: Suppose you feel very hot in the train . What you will do?

Student 1: I will open window.

Teacher If Window Area is 1.5SqM  
Volume of coach 12 m3  
Speed of train 80 km/hr,  
Velocity of air : 5 m/s

In how much time coach Will get cool?

Student 1 Failed

Student 2: I will die but I won't open window !!!!

02:58:04

**E- FDP Valedictory Function**

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## e - Valedictory Invitation

ANAND PHARMACY COLLEGE, ANAND

Cordially invites you to Valedictory function of

**Joint All India Council for Technical Education – Gujarat  
Technological University Sponsored One Week  
e-Faculty Development Programme**

on

**A future of Artificial Intelligence in Healthcare System: An  
Advanced Data Mining Tool**

**Date – March 12, 2022 & Time – 1.00 am**



**Chief Guest**

**Dr. Atmaram P. Pawar**

Professor & Principal, Poona  
College of Pharmacy, Bharati  
Vidyapeeth



**Guest of Honour**

**Dr. K. N. Kher**

Registrar, Gujarat  
Technological University



**Presided by**

**Smt. Jyotsnaben K. Patel**

Hon. Secretary,  
Shri Ramkrishna Seva Mandal



**Convener**

**Prof. Tejal R. Gandhi**

Convener & Principal  
Anand Pharmacy College



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## e - Valedictory Schedule

- ❖ Prayer
- ❖ Welcome Address by Dr. Tejal R. Gandhi  
Convener & Principal, Anand Pharmacy College
- ❖ Address by Dr. K. N. Kher  
Registrar, Gujarat Technological University
- ❖ Key Note Address by Dr. Atmaram P. Pawar  
Professor & Principal, Poona College of Pharmacy, Bharati Vidyapeeth
- ❖ Presidential Remarks by Smt. Jyotsnaben Patel  
Hon. Secretary, Shri Ramkrishna Seva Mandal
- ❖ Vote of thanks by Dr. Hardik Rana  
Coordinator and Associate Professor, Anand Pharmacy College



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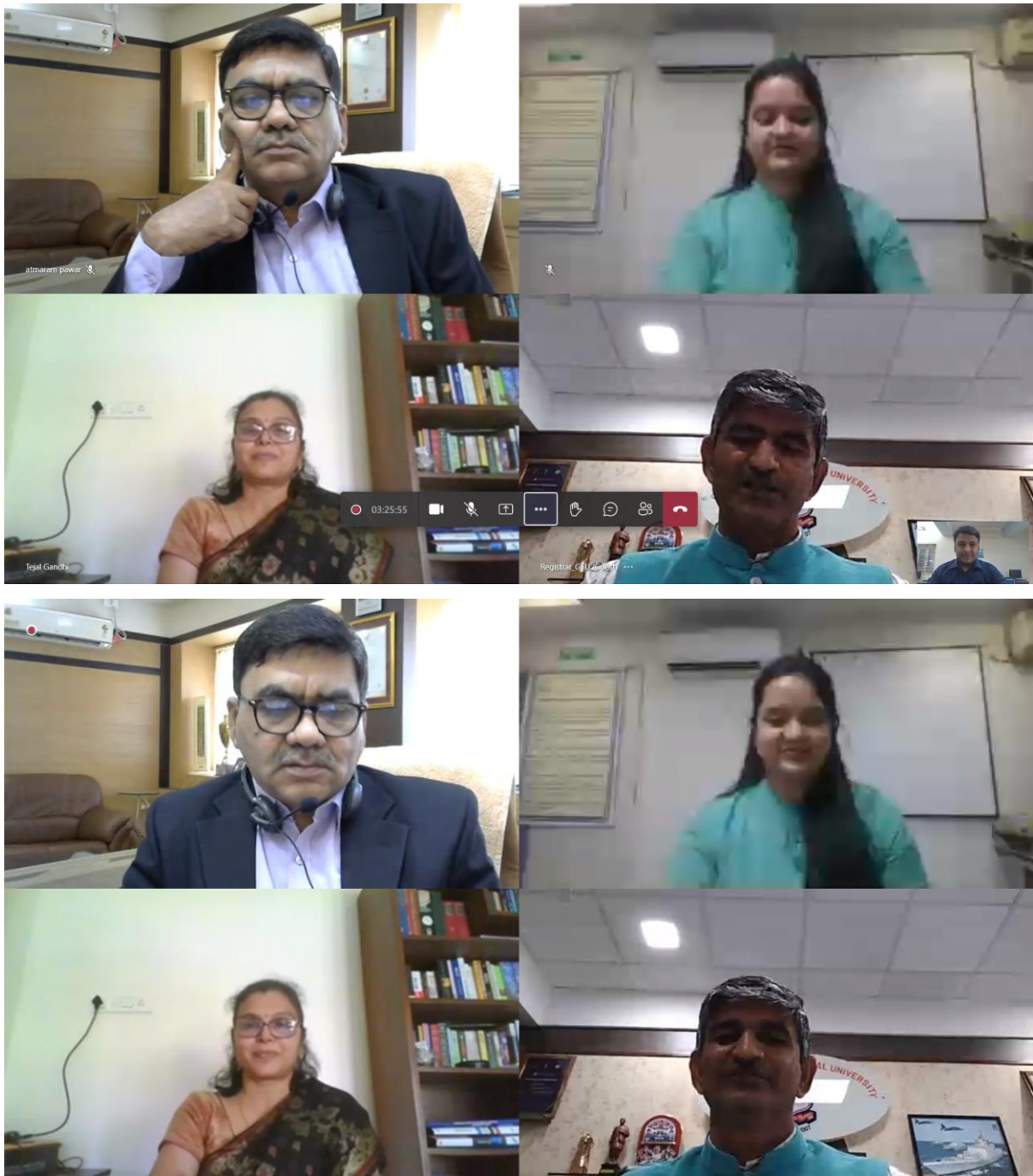
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Function was started by Ms. Shreya Shah by welcome address and praye. Dr. Tejal Gandhi introduced and welcomed all the eminent guests of the function. The e-FDP was honoured by the presence of chief guest; Dr. Atmaram Pawar, Professor and Principal, Poona College of Pharmacy and guests of honour Dr. K. N. Kher, Registrar, Gujarat Technological University.



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Session was succeeded by the oration of Dr. K.N.Kher. He in his brief appreciated Anand Pharmacy College as one of premier institute in state of Gujarat under umbrella of GTU. He appreciated college consistent efforts for development of holistic approach in students with dual accredited of NAAC an NBA. He also appreciated efforts of principal of APC for availing various grants and awards. He focussed in this speech for AI that it will be the future of Industry as well as academics.

Smt Jyotsnaben Patel, Hon. Sec of Shri RamKrishna Seva mandal (SRKSM) gave the presidential remarks followed by vote of thanks by Dr. Hardik Rana, co-ordinator of e-FDP & Associate Professor, APC.

Delegates are directed for feedback and test submission at the end of session of eligibility of certificate. This marked the ending of the Valedictory session of One week e-FDP.

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**SCHEDULE OF THE PROGRAMME**

<b>Day 1</b>	
<b>10.00 to 10.45 am</b>	<b>Inauguration Function</b>
<b>10.45 am to 12.15 pm</b>	<b>Prof. (Dr.) Bhupinder Singh Bhoop</b> Professor, Panjab University, Chandigarh <b>Title:</b> Emerging Computational Paradigm: Pivotal Role in Systematic Development of Drug Product
<b>12.15 to 1.45 pm</b>	<b>Prof. (Dr.) L. D. PATEL</b> Adjunct Professor, Parul Institute of Pharmacy <b>Title:</b> Artificial Neural Network: An Introduction
<b>2.15 to 3.45 pm</b>	<b>Shri Padmin Buch</b> Senior Advisor, Projects and IPR, Director, Troikkaa Pharmaceuticals Ltd. <b>Title:</b> Industry 4.0 and Intellectual Property Rights – Context of Pharma & Healthcare
<b>Day 2</b>	
<b>10.00 am to 11.30 am</b>	<b>Dr. Hardik Rana</b> Associate Professor, Anand Pharmacy College <b>Title:</b> Demonstration of Applicability of PLS Regression – A Machine Learning Technique in Product Optimization
<b>11.30 am to 1.00 pm</b>	<b>Dr. Jignesh Patel</b> Senior Director, Clinical Pharmacology and Core Laboratories, CBCC Global Research <b>Title:</b> Application of Artificial Intelligence (Artificial Neural Networks) in Pharmaceutical Research
<b>Day 3</b>	
<b>10.00 am to 11.30 am</b>	<b>Prof. (Dr.) Tejal Mehta</b> Professor and Head in Department of Pharmaceutics, Nirma University <b>Title:</b> Artificial Intelligence in Formulation Development and Optimization
<b>11.30 am to 1.00 pm</b>	<b>Prof. (Dr.) Priti Srinivas Sajja</b> Professor, P G Department of Computer Science and Technology, Sardar Patel University <b>Title:</b> Machine Learning in Disease Diagnosis
<b>Day 4</b>	
<b>10.00 am to 11.30 am</b>	<b>Prof. (Dr.) Ketan Kotecha</b>

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	Dean & Director, Symbiosis Institute of Technology <b>Title:</b> Deploying Artificial Intelligence for Health care Application
<b>11.30 am to 1.00 pm</b>	<b>Prof. (Dr.) Sanjay Chauhan</b> Director, Graduate School of Pharmacy (GSP), Gujarat Technological University <b>Title:</b> AI in Drug Discovery and Development
<b>2.00 pm to 3.30 pm</b>	<b>Prof. (Dr.) Vaishali Thakkar</b> Professor and Research Director, Anand Pharmacy College <b>Title:</b> Applications of Artificial Intelligence (AI) and Machine Learning (ML) in Pharmaceutical Science
<b>Day 5</b>	
<b>10.00 am to 11.30 am</b>	<b>Mr. Bhautik Sheth</b> Founder of iVIPANAN Digital Marketing and Management Services <b>Title:</b> AI in Digital Marketing
<b>11.30 am to 1.00 pm</b>	<b>Ms. Dipika Chavda</b> Associate Professor, Anand Pharmacy College <b>Title:</b> Demonstration of NeuroSolution in Optimizing Formulation Parameters
<b>2.00 pm to 3.30 pm</b>	<b>Prof. (Dr.) Jolly Parikh</b> Principal & Professor, A. R. College of Pharmacy and G.H. Patel Institute of Pharmacy <b>Title:</b> AI in Context to National Education Policy: A Brief Overview
<b>Day 6</b>	
<b>10.00 am to 11.30 am</b>	<b>Dr Ranjit Barshikar</b> CEO, QbD / cGMP Consulting (Biopharma / Pharma), Quality Adviser - United Nations MPP Geneva <b>Title:</b> Increasing Use of Artificial Intelligence in Pharmaceutical Industry
<b>11.30 am to 1.00 pm</b>	<b>Prof. (Dr.) Atmaram P. Pawar</b> Principal, Poona College of Pharmacy, Bharati Vidyapeeth <b>Title:</b> Interactive Teaching and Problem Based Assessment Tools for Implementation of NEP
<b>1.00 pm to 1.30 pm</b>	<b>Valedictory Function</b>
<b>1.30 pm 2.00 pm</b>	<b>Examination</b>

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**LIST OF PARTICIPANTS**

<b>SR. NO.</b>	<b>NAME OF DELEGATE</b>
1	PATEL MANSI SANJAYBHAI
2	MAKWANA SMIT SANATKUMAR
3	PRAJAPATI URMI PRAVIN
4	MEGHNA HEMANTKUMAR PANCHAL
5	SHAH AVANIBEN JANAKBHAI
6	SHAH YASH MANISHBHAI
7	PATEL YASH HITESHKUMAR
8	PRAJAPATI GAURANGKUMAR SHAILESHBHAI
9	PATEL AYUSHI DHARMENDRABHAI
10	GOHIL VIRENDRASINH KADUBHAI
11	JADEJA VISHWA DIGPALSINH
12	DEVADIYA HARDIK ANILBHAI
13	ROY RIMJHIM SHANKAR
14	GONDALIA PRINCE JITENDRABHAI
15	KAJAL KANUBHAI PATEL
16	KULSHRESHTHA NIKETA DHARMENDRAKUMAR
17	PATEL MEGHANA HEMANTBHAI
18	RANINGA HIREN HEMANTBHAI
19	BHARGAV SUCHITBHAI PIPALIYA
20	PARMAR NIDHI SANJAYBHAI
21	PATEL NIDHI BIRENKUMAR
22	PATEL VRUTTIBEN NILESHKUMAR
23	TRIVEDI RIDDHI MANOJKUMAR

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24	PATHAK PRIYANKA RAJENDRA
25	PANDYA HARSH RAVIBHAI
26	PATEL MANSI NIRANJANBHAI
27	LUNAGARIYA SMIT BHARATBHAI
28	CHADHA HITESHI DEVENDRAKUMAR
29	PAREKH KHYATI SANDIP
30	PATHAN RUKSHAR SAGIRAHMAD
31	PATEL KRUTIBEN CHANDRESHKUMAR
32	ANITA LALWANI
33	MAHESHWARI DILIP KUMAR GIRISH BHAI
34	DR. KUNAL N. PATEL
35	DR.VAISHALI T.THAKKAR
36	CHAVDA DHARA AMITKUMAR
37	MADHIRA GEETHA
38	JOHARI SARIKA GANGASAGAR
39	JAIN SOURABH
40	PUROHIT VATSAL DINESHBHAI
41	PATEL TARUNKUMAR PRAVINKUMAR
42	RABARI HARIBHAI ARJANBHAI
43	RATNAKAR NAYANKUMAR CHATURDAS
44	PREETI D. VERMA
45	DOSHI DIVYESHKUMAR BHARATKUMAR
46	HARDIK BHUPENDRA RANA
47	PATEL VAIBHAVKUMAR BALDEVBHAI
48	DESAI CHIRAG KIRITKUMAR

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49	KAUSHAL MONA AMIT
50	PATEL PARESHKUMAR KANUBHAI
51	KATARIYA HITESHKUMAR BABUBHAI
52	DR. VINAY C. DARJI
53	MAULIKKUMAR VAJA
54	SHEETAL TARAK ACHARY
55	DR. ADITI HEMRAJBHAI BARIYA
56	DR. SAGAR PAMU
57	PATEL KINJALBEN RAJENDRAKUMAR
58	SHUBHANGEE TOMAR
59	JIGNASHA RONAK PANDYA
60	MEHTA BINNY DEVANG
61	LAMBOLE VIJAY BHAGWAN
62	CHHIPA NADIMBHAI MAHAMADRAFIK
63	KOTADIYA VIDHI VATSAL
64	HEMANGINI PRAVINBHAI PATEL
65	MODI PALMI VIRAL
66	PARIKH NISHA HEMANT
67	PATEL GRISHMA NILESHKUMAR
68	PATEL JIMISHKUMAR RAMESHBHAI
69	PATEL DENISHABEN JAYESHBHAI
70	UPADHYAY JAYKUMAR SATISHKUMAR
71	PATEL TINKAL RAVI
72	SNEHA PRASHANT DAVE
73	ATHALYE MANSI NINAAD

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75	KIKANI HIRAL ASHVINBHAI
76	TULSI HARSHKUMAR VYAS
77	HEENABEN ABHISHEK CHOKSHI
78	ANAMIKA SINGH
79	DR. MADHURI PANDOLE
80	CHRISTIAN RUBY ROBERT
81	PATEL MANISH PRAHLADBHAI
82	MR. GHANSHYAMBHAI VISHNUBHAI PATEL
83	YADAV PRIYANKA DINESH KUMAR
84	SOHANSINH SAGRAMJI VAGHELA
85	PATEL BHOOMI DINESHKUMAR
86	TELI DIVYA MADHUKARBHAI
87	SHAH PRIYANKA MANTHAN
88	MS. KOMAL K. RAVAL
89	HIMALI DHARMESHKUMAR DESAI
90	DHAROD JAINEEL RAJESHBHAI
91	BHETARIYA ARTIBEN PALABHAI
92	HIRAL SAMATBHAI POPANIYA
93	PATEL KHUSHBUBAHEN KUNALKUMAR
94	PATEL JAINI KIRITKUMAR
95	RAVAL MORVI MAYURBHAI
96	DR. SNEHA CHACKO
97	JANI SHIVANI NILESHKUMAR
98	DR. JINAL CHAUDHARY



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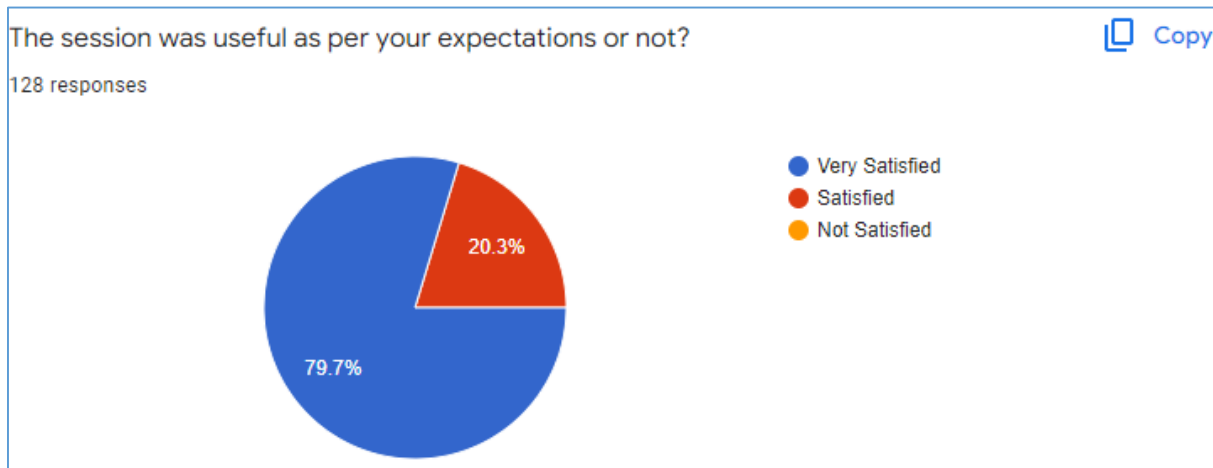
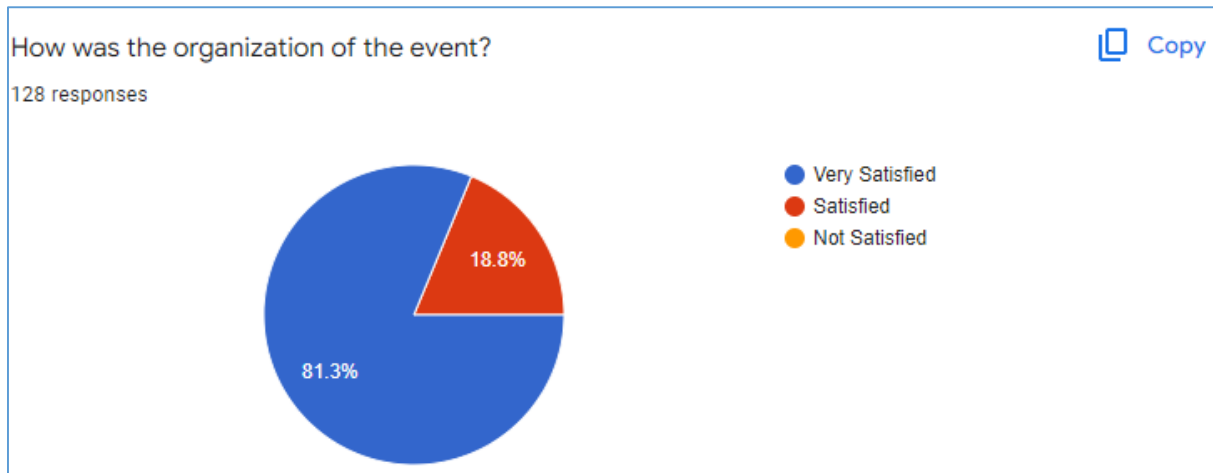
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99	BEENKUMAR R. PRAJAPATI
100	KHATRI RUCHI DASHARATHBHAI
101	DR. MEGHA SHAH
102	PATEL ANKURBHAI PRAFULBHAI
103	GAMIT KINJALKUMARI SUMANBHAI
104	ARTI MOHAN
105	SOLANKI VRUNDAKUMARI RAJENDRASINH
106	PATEL NENSIKUMARI CHANDRAKANT
107	YADAV POONAM J.
108	MAHAJAN ASHOK NEELKANTH
109	PATEL PRIYAL RAMESHBHAI
110	DR. SUNITA GOSWAMI
111	PARMAR RAJESH RAMABHAI
112	CHAVDA DIPIKA DINESHBHAI
113	DR. TEJAL GANDHI
114	DR. KALPANA PATEL
115	SHAH SHREYA BHARATBHAI
116	PREETIBEN NARESHKUMAR YADAV
117	PATEL GOPI SNEHALKUMAR
118	JAGRUTI R. VASAVA
119	SHRISHAIL MATH
120	JAISWAL REEMA ARVINDBHAI

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**FEEDBACK FROM THE PARTICIPANTS:**



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How was the topic or content of all presentations?

 Copy

128 responses

