



**CENTRE FOR CONTINUING
EDUCATION, GTU CERTIFIED
SHORT TERM TRAINING
PROGRAMS**



**PRACTICAL HANDS-ON HIGH-PERFORMANCE LIQUID
CHROMATOGRAPHY (HPLC)**

ORGANIZED BY

**SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF
PHARMACY, VIDYABHARTI TRUST, UMRACH, BARDOLI.**

REPORT

(3rd HPLC BATCH- MARCH 2022)



CCE, GTU CERTIFIED SHORT TERM TRAINING PROGRAMS
Practical Hands-on High-Performance Liquid Chromatography (HPLC)
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INDEX (3RD HPLC BATCH- MAR 2022)

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ABOUT GUJARAT TECHNOLOGICAL UNIVERSITY (3RD HPLC BATCH- MAR 2022)

1. ABOUT GUJARAT TECHNOLOGICAL UNIVERSITY:

Gujarat Technological University is a premier academic and research institution which has driven new ways of thinking since its 2007 founding, established by the Government of Gujarat vide Gujarat Act No. 20 of 2007. Today, GTU is an intellectual destination that draws inspired scholars to its campus, keeping GTU at the nexus of ideas that challenge and change the world. GTU is a State University with 486 affiliated colleges in its fold operating across the state of Gujarat through its FIVE zones at Ahmedabad, Gandhinagar, Vallabh Vidyanagar, Rajkot and Surat. The University caters to the fields of Engineering, Architecture, Management, Pharmacy and Computer Science. The University has about 4,00,000 students enrolled in a large number of Diploma, Under Graduate, Post Graduate programs along with the robust Doctoral program.

Our education empowers individuals to challenge conventional thinking in pursuit of original ideas. With a commitment to free and open inquiry, our scholars work transforms the way we understand the world, advancing – and creating – fields of study.

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ABOUT THE COLLEGE (3RD HPLC BATCH- MAR 2022)

2. ABOUT THE COLLEGE

Shree N. L. Patel College of Pharmacy, Umrakh was established in the year 2004 under the aegis of Vidyabharti Trust with main objective of visionary in the mission of quality Pharmacy education. This college is located on the way of Bardoli-Mota road, 3 kilometer away from Bardoli and 34 kilometers away from Surat in a lush green sprawling campus with sufficient infrastructure facilities. The college is approved by the Pharmacy Council of India (PCI), New Delhi, All India Council for Technical Education (AICTE), New Delhi, recognized by Government of Gujarat and affiliated to Gujarat Technological University (GTU), Ahmadabad. Accredited by NBA, New Delhi (B. Pharmacy Course upto June 2024).

At this moment, Shree N. L. Patel College of Pharmacy offers B. Pharm and M. Pharm course in Pharmaceutics, Quality Assurance & Pharmacology to impart the knowledge and to empower individuals with wisdom to prepare a pharmacist of the future.

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ABOUT COURSE (3RD HPLC BATCH- MAR 2022)

3. ABOUT COURSE

GTU sponsored short term training programs and workshops on – HPLC organized by Shree Naranjibhai Lalbhai Patel college of Pharmacy, Vidyabharti Trust, UmraKh, Bardoli.

Course Coordinator: Dr. Ashok H Akabari

Course Duration: 1.5 Months (Total Hrs: 60)

- Course material will be provided from the institute.

ELIGIBILITY:

Fresher / Experience with B.Sc./M.Sc./B. Pharm/M. Pharm/ B.E. Chemical

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SIGNIFICANCE OF COURSE (3RD HPLC BATCH- MAR 2022)

4. SIGNIFICANCE OF COURSE

Students who are pursuing their studies or have completed study and want to enter in pharmaceutical industry can join any of our courses as per his/her interest.

1. This course is ideal for those who are new to HPLC.
2. This course is ideal for those who have experience running HPLC methods and now want to learn how to develop new methods.
3. This course is ideal for those who have experience using HPLC and now want to develop their skills further
4. This course is ideal for those who have experience developing HPLC methods but want to increase their knowledge to deal with more challenging separations.

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COURSE OBJECTIVE (3RD HPLC BATCH- MAR 2022)

5. COURSE OBJECTIVE:

- To learn the basic fundamentals and concepts of HPLC instrument.
- To apply the knowledge of HPLC to analyze drug in bulk and pharmaceutical dosage form.
- To develop a new HPLC method for the analysis of drug in bulk and pharmaceutical dosage form.
- To understand the fundamentals and concepts of Pharmaceutical Method Validation as per ICH guidelines.
- To develop skilled person as per the need of industrial requirement to smoothing the function as well as to save the training period of newly graduate enter to the industries.

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COURSE OUTCOME (3RD HPLC BATCH- MAR 2022)

6. COURSE OUTCOME:

After successful completion of 2nd batch of short-term course on HPLC every participant are eligible to get certificate and learn following skill.

1. Participant learn to Run HPLC Methods: Participant Learn how to set up and run HPLC analysis with full understanding of all the method parameters such as the column, the mobile phase, the instrumentation, and sample preparation, and how to interpret and quantify the results of the analysis.

2. Participant has getting ability to Develop New HPLC Methods: Participant Learn how to select appropriate method conditions and perform suitable investigative experiments to obtain a set of method parameters which enables the desired separation for mixtures of analytes.

3. Participant acquires the knowledge of Troubleshoot HPLC: Participant Learn how to find solutions for problems encountered when running HPLC analysis by diagnosing symptoms and implementing appropriate preventative measures.

4. Participant learns to Develop HPLC Methods for Challenging Separations: Participant has learn to implement strategies to achieve satisfactory separation for ‘complex’ samples and use computer modelling to develop robust and fit for purpose HPLC methods.

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RESOURCE PERSON PROFILE (3RD HPLC BATCH- MAR 2022)

7. Resource Person Profile

Name of Resource Person	Designation and Address
Mr Gunvat Yadav	Industry Resource Person, Spino Biotech
Dr. Shailesh Lohar	Director, Smt. B.N.B. Swaminarayan Pharmacy College, Salvav
Dr Vishnu Sutariya	HEAD of Shree Dhanvantary Pharmaceutical Analysis & Research Center, KIM
Dr. Usmangani chhalotiya	Associate Professor, Indukaka Ipcowala College of Pharmacy, Charotar Vidya Mandal University, V V Nagar
Dr Ashok H AKabari	Associate Professor, Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh
Dr Jasmina Surati	Assistant Professor, Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh
Mr Sagar Patel	Assistant Professor Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh
Mrs Divya Solanki	Assistant Professor Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh

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DATE AND SESSION-WISE COURSE CONTENT DELIVERED (3RD HPLC BATCH- MAR 2022)

8. DATE AND SESSION-WISE COURSE CONTENT DELIVERED

Theory Class				
Date	Faculty Name (1)	Time	Faculty Name (2)	Time
28/02/2022	Inaugural Function	01.00 to 01.30	Dr Ashok H AKabari	01.30 to 02.30
02/03/2022	01.00 to 03.00	Industry Resource Person(Mr Gunvat Yadav, Spino Biotech) and Virtual lab Demostration		
03/03/2022	01.00 to 03.00	Development of LC methods: Points to ponder by Dr. Shailesh Lohar, Director, Smt. B.N.B. Swaminarayan Pharmacy College, Salvav		
04/03/2022	01.00 to 03.00	Validation of LC methods: ICH and USP perspective. By Dr. Usmangani chhalotiya, Asso. Professor, Indukaka Ipcowala College of Pharmacy, Charotar Vidya Mandal University, V V Nagar		
05/03/2022	Dr Jasmina Surati	01.00 to 02.02	Dr Jasmina Surati	02.05 to 03.05
14/03/2022	Dr Jasmina Surati	01.00 to 02.02	Dr Jasmina Surati	02.05 to 03.05
15/03/2022	Mr Sagar Patel	01.00 to 02.04	Mr Sagar Patel	02.05 to 03.06
16/03/2023	Mr Sagar Patel	01.00 to 02.05	Mr Sagar Patel	02.05 to 03.07
17/03/2023	Mrs Divya Solanki	01.00 to 02.06	Mrs Divya Solanki	02.05 to 03.08
21/03/2022	Mrs Divya Solanki	01.00 to 02.07	Mrs Divya Solanki	02.05 to 03.09
22/03/2022	Dr Ashok H AKabari	01.00 to 02.03	Dr Ashok H AKabari	02.05 to 03.05
23/03/2022	Dr Ashok H AKabari	01.00 to 02.03	Dr Ashok H AKabari	02.05 to 03.05

	Practical Class		
Date	Aim of Practical	Faculty Name	Time
24/03/22	Basic Step for HPLC operation	Dr Vishnu Sutariya	9.30 am to 4.30 pm
25/03/22	Method development step for Paracetamol	Dr Ashok Akabari	9.30 am to 4.30 pm
28/03/22	Validation of HPLC Method	Mr Sagar Patel	9.30 am to 4.30 pm
29/03/22	Method development step for simultaneous analysis of two drug combination	Mr Sagar Patel	9.30 am to 4.30 pm
30/03/22	Method development step for simultaneous analysis of two drug combination	Dr Jasmina Surati	9.30 am to 4.30 pm
31/03/22	Method development step for simultaneous analysis of two drug combination	Dr Jasmina Surati	9.30 am to 4.30 pm
01/04/2022	External Examination evaluation	Dr Shailesh Lohar Expert 1	Dr Ashok Akabari Expert 2

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LIST OF PARTICIPANTS (3RD HPLC BATCH- MAR 2022)

9. LIST OF PARTICIPANTS

Enrollment Number	Name of Participant	Email	Mobile Number
CCE00372001	AYUSHI PATEL	patelaayushi2812@gmail.com	6354994726
CCE00372002	BHANAPATEL FAIZA IMTIYAZ	faizabpatel123@gmail.com	9725711769
CCE00372003	DARSHIKA RATHOD	darshikarathod1999@gmail.com	9537957503
CCE00372004	DHRUVI MACHHI	machhidhruvi2205@gmail.com	7698714423
CCE00372005	DIKSHA SINGH	singh.diksha1012@gmail.com	9555559507
CCE00372006	FORAM CONTRACTOR	foramcontractor28@gmail.com	9106939820
CCE00372007	GAYATRI PATEL	patelgayatri0025@gmail.com	9408206745
CCE00372008	GUFRAN KHAN	pgufran852@gmail.com	7984080867
CCE00372009	JAGRUTI KACHCHHI	jagrutikachhi215@gmail.com	7698964590
CCE00372010	JAISWAL SHIVAM SATYANARAYAN	jshivam761@gmail.com	8511859375
CCE00372011	MANDLIK DRASHTI RAVINDRABHAI	drashtimandlik192@gmail.com	9265018798
CCE00372012	NAIK PRIYANSHI MAYANKBHAI	naikpriyanshi.pn@gmail.com	6354190328
CCE00372013	NIKI DESHMUKH	nikideshmukh240@gmail.com	6354328552
CCE00372014	SANJAY SARAVAIYA	sanjaysaravaiya6124@gmail.com	8140252304
CCE00372015	SHIVAM LAD	shivam123.lad@gmail.com	9727164858
CCE00372016	UTKARSH KIKANI	utkarshkikani77@gmail.com	9714812416
CCE00372017	VIVEK DILIPBHAI CHAVDA	vivek552200@gmail.com	9081192718
CCE00372018	VIVEK PATEL	vap1099885@gmail.com	9978797774

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SESSION-WISE ATTENDANCE OF PARTICIPANTS (3RD HPLC BATCH- MAR 2022)

10. Session-wise Attendance of Participants

Enrollment Number	Name of Participant	Theory Attendance (In Percentage)	Practical Attendance (In Percentage)
CCE00372001	AYUSHI PATEL	100 %	100 %
CCE00372002	BHANAPATEL FAIZA IMTIYAZ	100 %	100 %
CCE00372003	DARSHIKA RATHOD	100 %	100 %
CCE00372004	DHRUVI MACHHI	100 %	100 %
CCE00372005	DIKSHA SINGH	100 %	100 %
CCE00372006	FORAM CONTRACTOR	100 %	100 %
CCE00372007	GAYATRI PATEL	100 %	100 %
CCE00372008	GUFRAN KHAN	100 %	100 %
CCE00372009	JAGRUTI KACHCHHI	100 %	100 %
CCE00372010	JAISWAL SHIVAM SATYANARAYAN	100 %	100 %
CCE00372011	MANDLIK DRASHTI RAVINDRABHAI	100 %	100 %
CCE00372012	NAIK PRIYANSHI MAYANKBHAI	100 %	100 %
CCE00372013	NIKI DESHMUKH	100 %	100 %
CCE00372014	SANJAY SARAVAIYA	100 %	100 %
CCE00372015	SHIVAM LAD	100 %	100 %
CCE00372016	UTKARSH KIKANI	100 %	100 %
CCE00372017	VIVEK DILIPBHAI CHAVDA	100 %	100 %
CCE00372018	VIVEK PATEL	100 %	100 %

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EVALUATION METHODOLOGY (3RD HPLC BATCH- MAR 2022)

11. Evaluation Methodology

1. Students have to perform practical on HPLC. (On the basis of practical performance marks is given)
2. Students have to develop validation protocol for the analysis of drug by HPLC as per ICH guidelines. (On the basis of practical performance for the development of validation protocol marks is given)
3. Presentation by the candidate
4. Mock Interview
5. After Result of candidates (marks/grades) of Exam and Certificate will be issue by GTU.

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RESULT AFTER EVALUATION (3RD HPLC BATCH- MAR 2022)

12. RESULT AFTER EVALUATION

Gujarat Technological University			
Centre for Continuing Education			
Marks of Learners (Internal & External)			
Course Name: Practical Hands On High Performance Liquid Chromatography (Batch 3)	Exam Date: 1/4/2022	Internal Examiner: Dr. Ashok H Akabari Shree N. L. Patel College of Pharmacy, UmraKh	
Course Code: CCE0037	Exam Centre: Shree N. L. Patel College of Pharmacy, UmraKh	External Examiner: Dr. Shailesh Luhar Smt BNB Swaminarayan Pharmacy College, Salvav	
Enrollment Number	Name of Learner	Obtained Internal Marks(out of	Obtained External Marks(out of 60)
CCE00372001	AYUSHI PATEL	35	55
CCE00372002	BHANAPATEL FAIZA IMTIYAZ	32	54
CCE00372003	DARSHIKA RATHOD	33	56
CCE00372004	DHRUVI MACHHI	32	57
CCE00372005	DIKSHA SINGH	38	57
CCE00372006	FORAM CONTRACTOR	31	54
CCE00372007	GAYATRI PATEL	35	55
CCE00372008	GUFRAN KHAN	36	54
CCE00372009	JAGRUTI KACHCHHI	37	57
CCE00372010	JAISWAL SHIVAM	36	53
CCE00372011	MANDLIK DRASHTI	34	55
CCE00372012	NAIK PRIYANSHI	33	52
CCE00372013	NIKI DESHMUKH	38	55
CCE00372014	SANJAY SARAVAIYA	37	55
CCE00372015	SHIVAM LAD	36	56
CCE00372016	UTKARSH KIKANI	37	56
CCE00372017	VIVEK DILIPBHAI CHAVDA	35	55
CCE00372018	VIVEK PATEL	36	54
Signature:	<i>Ashok Akabari</i>	Signature:	
Name:	Dr. Ashok H Akabari	Name:	Dr. Shailesh Luhar
Internal Examiner		External Examiner	

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FEEDBACK FROM PARTICIPANTS (3RD HPLC BATCH- MAR 2022)

13. FEEDBACK FROM PARTICIPANTS

Timestamp	How was the lecture of Mr. Gunvant Yadav on Complete step by step tutorial of HPLC software?	How was the lecture of Development of LC methods: Points to ponder by Dr. Shailesh Lohar ?	How was the lecture of Validation of LC methods: ICH and USP perspective By Dr. Usmangani chhalotiya?	How was the lecture of Dr Jasmina Surati on HPLC?	How was the lecture of Mr Sagar Patel on Validation parameter for HPLC method development?	How was the lecture of Dr Ashok H AKabari on HPLC instrumentat ion?
01/04/2022 10:01:20	Excellent	Excellent	Good	Excellent	Excellent	Excellent
01/04/2022 10:06:17	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:06:20	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:06:44	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:07:30	Excellent	Excellent	Excellent	Excellent	Excellent	Good
01/04/2022 11:07:36	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:07:40	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:07:50	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:07:55	Excellent	Good	Excellent	Good	Good	Excellent
01/04/2022 11:08:21	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:08:35	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:08:42	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:08:45	Good	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:08:46	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:08:47	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:08:52	Excellent	Excellent	Excellent	Good	Good	Excellent
01/04/2022 11:08:58	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
01/04/2022 11:09:09	Excellent	Excellent	Good	Good	Excellent	Excellent
01/04/2022 11:15:38	Good	Good	Excellent	Good	Good	Good
01/04/2022 12:30:29	Excellent	Excellent	Good	Good	Good	Excellent

How was the lecture of Mrs Divya Solanki on Basics of chromatography and HPLC?	How was the practical session of Dr Vishnu Sutariya on Basic Step for HPLC operation?	How was the practical session of Dr Ashok Akabari on Method development step for Paracetamol?	How was the practical session of Dr Jasmina Surati on Method development steps for simultaneous analysis of two drug combination?	How was the practical session of Mr Sagar Patel on Validation of HPLC Method?	How was the overall experience of HPLC course?
Excellent	Good	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
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Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
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Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Good	Excellent	Excellent	Excellent	Excellent
Good	Good	Good	Good	Good	Good
Excellent	Good	Good	Excellent	Excellent	Excellent

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PHOTOGRAPHS OF COURSE (3RD HPLC BATCH- MAR 2022)

14. Few Photographs of Course Content Delivery







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સ્વામિનારાયણ ફાર્મસી કોલેજના એમ ફાર્મના પ્રથમ વર્ષના વિદ્યાર્થીઓએ સોફ્ટસ્કેટ ઈન્સ્ટ્રુમેન્ટ HPLC બેઝડ સોફ્ટ સ્કીલ પ્રોગ્રામ સફળતાપૂર્વક પૂર્ણ કર્યો



(લોકજનશક્તિ ન્યુઝ)
પરાગ જોષી દ્વારા

વાપી: ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટીના સેન્ટર ફોર કંટીન્યુઈંગ એજ્યુકેશનના માધ્યમથી ઉમરાખ ખાતે આવેલી શ્રી નારણજીભાઈ લાલભાઈ પટેલ કોલેજ ઓફ ફાર્મસીમાં શોર્ટ ટર્મ ટ્રેનિંગ પ્રોગ્રામ યોજાયો હતો. આ પ્રોગ્રામમાં શ્રીમતી ભાવનાબેન નાનુભાઈ બાંભરોલીયા સ્વામિનારાયણ ફાર્મસી કોલેજના માધ્યમથી એમ ફાર્મ ના પ્રથમ વર્ષના વિદ્યાર્થીઓએ ઉત્સાહપૂર્વક ભાગ લીધો હતો.

આ પ્રોગ્રામ નો મુખ્ય હેતુ પ્રેક્ટીકલ હેન્ડસ ઓન હાઈ પર્ફોર્મન્સ લિક્વિડ ક્રોમેટોગ્રાફી પર હતો. આ ટ્રેનિંગમાં વિવિધ મુદ્દાઓ વિશે ઝીણવટપૂર્વક માહિતી આપવામાં આવી હતી જેમાં સિસ્ટમ સ્યુટ્રેબિલિટી જેવાકે રિઝોલ્યુશન,

થીઓરિટીકલ પ્લેટ અને ટેઈલિંગ ફેક્ટર. આ ઉપરાંત ટૂબલ શૂટિંગ એન્ડ મેથડ વેલીડેશન વિશે ઉદાહરણપૂર્વક વર્કશોપ કર્યો હતો. આ પ્રોગ્રામનો સમયગાળો ૨૭મી ડિસેમ્બર ૨૦૨૧ થી ૧લી એપ્રિલ ૨૦૨૨ સુધીનો હતો. આ દરમિયાન કોલેજના વિદ્યાર્થીઓ પાંચ દિવસ સુધી રોકાઈ પ્રેક્ટીકલ હેન્ડસ ઓન હાઈ પર્ફોર્મન્સ લિક્વિડ ક્રોમેટોગ્રાફી ઉપર તાલીમ લીધી હતી. આ પ્રોગ્રામમાં વિદ્યાર્થીઓને સંપૂર્ણ અને સચોટ માહિતી શ્રી નારણજીભાઈ લાલભાઈ પટેલ કોલેજ ઓફ ફાર્મસી ના હેડ ઓફ ડિપાર્ટમેન્ટ અને એસોસિયેટ પ્રોફેસર ડૉ. અશોક અકબરી દ્વારા અપાઈ હતી.

આ ટ્રેનિંગ પ્રોગ્રામ ફાર્માસ્યુટિકલ્સ ડિપાર્ટમેન્ટના હેડ અને એસોસિયેટ પ્રોફેસર ડૉ. અનુરાધા પી. પ્રજાપતિના

નેતૃત્વ હેઠળ થયું હતું. આ ટ્રેનિંગ પ્રોગ્રામ માટે સમગ્ર માર્ગદર્શન કેમ્પસ એકેડેમિક ડીરેક્ટર અને એમ. ફાર્મના હેડ ડૉ. શૈલેશ લુહાર અને કોલેજના આચાર્યશ્રી ડૉ. સચિન બી. નારખેડે દ્વારા આપવામાં આવ્યું હતું. આ બદલ શ્રી સ્વામિનારાયણ સંસ્થાના આધ્યસ્થાપક પરમ પૂજ્ય પૂરાણી સ્વામી કેશવચરણદાસજી, મેનેજિંગ ટ્રસ્ટી પરમ પૂજ્ય પુરાણી સ્વામી કપિલજીવનદાસજી, પરમ પૂજ્ય રામસ્વામીજી, ટ્રસ્ટી શ્રી. બાબુભાઈ સોડવડીયા, ટ્રસ્ટીગણ, કેમ્પસ એકેડેમિક ડીરેક્ટર અને એમ. ફાર્મના હેડ ડૉ. શૈલેશ લુહાર, કેમ્પસ ડીરેક્ટર શ્રી. હિતેન ઉપાધ્યાય, આચાર્યશ્રી ડૉ. સચિન બી. નારખેડે અને તમામ સ્ટાફ વિદ્યાર્થીઓને અભિનંદન પાઠવ્યા હતા.