



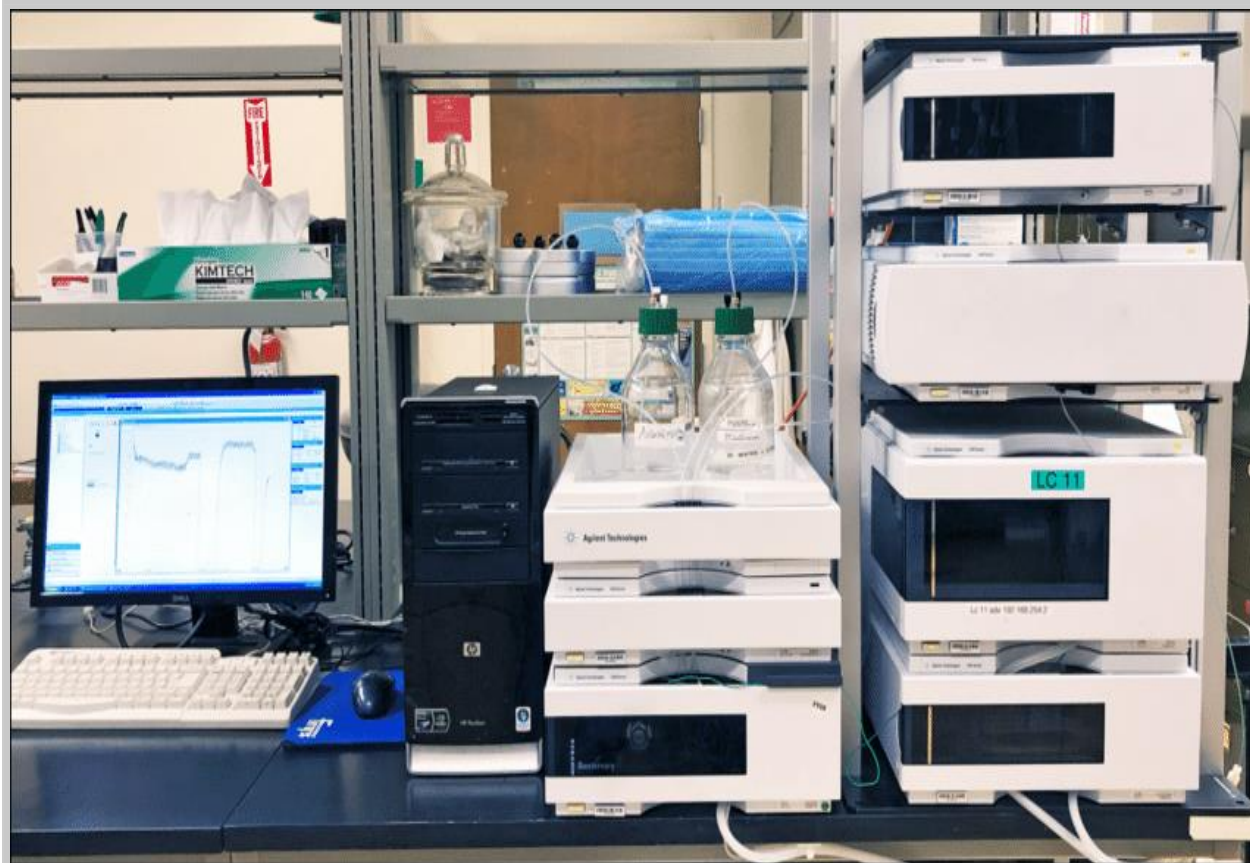
**CENTRE FOR CONTINUING
EDUCATION, GTU CERTIFIED
SHORT TERM CERTIFIED COURSE**



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

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

**REPORT
(1ST BATCH - SEPTEMBER 2021)**



CENTRE FOR CONTINUING EDUCATION, GTU SHORT TERM CERTIFICATE COURSE
Practical Hands-on High-Performance Liquid Chromatography (HPLC)
Organized by
Shree Naranjibhai Lalbhai Patel College of Pharmacy, Vidyabharti Trust, Umrakh.
INDEX (1ST BATCH- SEPT 2021)

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1. COURSE OBJECTIVE: -

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 skills 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.

CENTRE FOR CONTINUING EDUCATION, GTU SHORT TERM CERTIFICATE COURSE

2. LIST OF PARTICIPANTS: -

Enrollment Number	Name of Students	Email	Organization Name	Mobile Number
CCE00370001	BAMAN VISHALBHAI MANUBHAI	vishalbaman2411@gmail.com	Sigma institute of pharmacy	7285080683
CCE00370002	CHANDANI BHARATBHAI PATEL	chandnipatel25999@gmail.com	Shree Naranjibhai Laljibhai Patel Collage Of Pharmacy	9723045974
CCE00370003	CHAUDHARI BHUMIBEN MAHESHBHAI	bhumichaudhari29@gmail.com	Shree Naranjibhai Lalbhai patel college of pharmacy	7874553909
CCE00370004	CHAUDHARY LALIT VENARAMBHAI	ld2771997@gmail.com	Shree Naranjibhai Lalbhai Patel College of Pharmacy	9723790348
CCE00370005	HEMA VISHALKUMAR BADGUJAR	hemabadgujar1@gmail.com	ckpithawalla institute of pharmaceutical sciences and research surat	8320770687
CCE00370006	JADAV DIVYABEN MAHENDRASINH	divyajadav193@gmail.com	Sigma institute of pharmacy	8153059137
CCE00370007	KALESH KAPILABEN NARESHBHAI	kapilakalesh8025@gmail.com	Shree naranjibhai lalbhai college of pharmacy	9512699351
CCE00370008	KSHATRIYA SHIVANI AMIT KUMAR	shivanikshatriya1234@gmail.com	Sigma Institute of Pharmacy	9081957396
CCE00370009	MISTRY POOJABEN RAJESHKUMAR	mistry.pooja25@gmail.com	Shree naranjibhai lalbhai patel college of pharmacy	9558697025
CCE00370010	NINAMA HEENA SARDARBHAI	ninamahina28@gmail.com	Sigma Institute of pharmacy	7575850439
CCE00370011	PARMAR NIKUNJKUMAR NARENDRABHAI	nikunjparmar40734@gmail.com	Shree Naranjibhai lalbhai patel college of pharmacy,	9913141107
CCE00370012	PATEL ARUN MADHUBHAI	arupatel137@gmail.com	Shree naranjibhai lalbhai patel college of pharmacy.	7016678157
CCE00370013	PATEL MANSI HASMUKHBHAI	patelmansi052001@gmail.com	Sigma Institute of Pharmacy	9624013098
CCE00370014	PATEL NIDHI ANILBHAI	patelnidhi857@gmail.com	Shree Naranjibhai Lalbhai patel college of pharmacy	8758641971
CCE00370015	PATEL PARTH DILIPKUMAR	parthpatel0102@gmail.com	Cognizant Technology Solutions India Pvt. Ltd.	9537667435
CCE00370016	PATEL SIMRANBEN NARESHBHAI	Kreya8193@gmail.com	Sigma institute of pharmacy vadodara	07043888193
CCE00370017	PRAJAPAT LALITA TULSIRAM	plalita455@gmail.com	Shree Naranjibhai lalbhai patel college of pharmacy,	08733024721
CCE00370018	RAJ KRISHNABEN NARENDRASINH	rajkisu1997@gmail.com	Sigma institute of pharmacy	9909991086
CCE00370019	UPADHYAY DEVANSHI ASHVINKUMAR	devanshiupadhyay11@gmail.com	Sigma institute of pharmacy	9427679646
CCE00370020	VADNERKAR DAMINI RAVI	deepavadnerkar@gmail.com	sigma institute of pharmacy	9104249931

3. DETAILS OF RESOURCE PERSONS: -

Name of Resource Person	Designation and Address	Email
Mr Gunvat Yadav	Field Application Specialist, Spincobiotech Pvt. Ltd, Ahemdabad	gunvant.yadav@spincotech.com
Dr. Asvin Upadhyay	Corporate Quality Head, Neogen chemicals ltd, Vadodara	ashvin12anita@yahoo.com
Dr Vishnu Sutariya	HEAD OF Shree Dhanvantary Pharmaceutical Analysis & Research Center, KIM	vishnusutariya@gmail.com
Dr Kashyap Thummar	Assistant Professor, Graduate School of Pharmacy, GTU Gandhinagar	ap_kashyap@gtu.edu.in
Mr Ravi Patel	Assistant Professor, Graduate School of Pharmacy, GTU Gandhinagar	ap_ravi_patel@gtu.edu.in
Dr Vinod Ramani	Assistant Professor, Bhagwan mahavir College of Pharmacy, Surat	vinodramani01@gmail.com
Dr Chairesh Shah	Associate Professor, Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh	shahchairesh@gmail.com
Dr Ashok H AKabari	Associate Professor, Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh	ashokakabari@gmail.com
Dr Jasmina Surati	Assistant Professor, Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh	j.s.surati@gmail.com
Mr Sagar Patel	Assistant Professor Shree Naranjibhai Lalbhai Patel College Of Pharmacy, UmraKh	patelsagar3029@gmail.com

4. DETAILS OF INFRASTRUCTURE/LABORATORIES: -**LIST OF INSTRUMENTS ARE AVAILABLE:**

1. Cyber Lab HPLC (LC-100 series)
2. Ultrasonic Bath (Made by Spectra Lab)
3. pH meter (Labtronics PH / Temperature / MV Meter (Graphical), Model No.: LT-50, pH Range: 0-14)
4. Analytical Balance (up to 10mg sensitivity)
5. Filtration assembly (Whatmann filter paper 0.45um)
6. All other glassware accessories
7. Separate HPLC lab (105 mt. Sq. Ft)

1. Specification of Cyber Lab HPLC (LC-100 series)

Particular	Range/Specification
Cyber-Sil - HPLC Column	<ul style="list-style-type: none"> ➤ C₁₈ column ➤ 250mm (Length)(x 4.6mm(i.d.) (5um particle size)
Flow rate Control Range	<ul style="list-style-type: none"> ➤ 0.001~9.999mL/min (Adjustable Flow Rate:0.001mL/min) ➤ RSD: no more than 0.06% (Flow rate 1mL/min, pure water, room temperature)
Maximal operating pressure	42MPa (flow rate: 0.001~ 9.999mL/min)
Type of HPLC system	GM-100 Gradient Mixing Chamber
Gradient error	No less than -3% and no more than +3%
Pump	Reciprocating pump with a parallel connection of double plungers and an intelligent control of a microprocessor has higher operating pressure, smaller pulsation, stable performance,
Pressure test accuracy	Indicates pressure error smaller than 0.5Mpa (0~42MPa)
Pulse pressure	No more than 0.2MPa(Flow rate 1mL/min, pressure 5~10Mpa)
Airproof of pump	pressure 42MPa, time 10min, and pressure smaller than 0.5MPa
Injector	Rehodyne, 7725i, 20 ul loop
Detector	LC-UV-100 UV-VIS Detector

	Wavelength Range: 190~600nm Spectrum Band Width: 8nm Wavelength Scanning Spectrum during Sample Analysis
Software	DS-100 Workstation software
Sample Filtration Kit	FK-100 Sample Filtration Kit
Mobile Phase Reservoir Capacity	250 ml to 2000ml (Borosil Glass)
Physical dimension	450mmX300mmX150mm (lengthXwidthXheight)

2. Ultrasonic Bath (Made by Spectra Lab)

Tank Clear Size	Model	Tank Inner Size (L x W x H)	Basket Size (L x W x H) mm	Capacity Lit
	50	9" x 5.5" x 2.5" 228 x 140 x 60 mm	200 x 100 x 20	1.5 / 2
Timer	Two Digit LED display 0 –90 minutes Timer with settable & on / off keys.			
Temperature Control	Digital Temp/ Controller (Up to 50° C with two Digit LED Display with settable			

5. SCHEDULE OF COURSE: -

Theory Class				
Date	Faculty Name (1)	Time	Faculty Name (2)	Time
20/09/2021	Dr Jasmina Surati	10.00 to 11.00	Dr Jasmina Surati	11.05 to 12.05
21/09/2021	Dr Ashok H AKabari	10.00 to 11.00	Dr Ashok H AKabari	11.05 to 12.05
22/09/2021	Dr Jasmina Surati	10.00 to 11.00	Dr Jasmina Surati	11.05 to 12.05
23/09/2021	Dr Ashok H AKabari	10.00 to 11.00	Dr Ashok H AKabari	11.05 to 12.05
24/09/2021	Industry Resource Person (Mr Gunvat Yadav, Spino Biotech) and Virtual lab Demostration			
25/09/2021	Mr Sagar Patel	10.00 to 11.00	Mr Sagar Patel	11.05 to 12.05
26/09/2021	Industry Resource Person (Dr. Asvin Upadhyay, Vadodara)			
27/09/2021	Industry Resource Person (Dr Vishnu Sutariya, SDPC Lab, Kim)			
28/09/2021	Resource Person (GTU). Dr Kashyap Thummar and Mr Ravi Patel			
29/09/2021	Mr Sagar Patel	10.00 to 11.00	Mr Sagar Patel	11.05 to 12.05
30/09/2021	Dr Chainesh Shah	10.00 to 11.00	Dr Chainesh Shah	11.05 to 12.05
01/10/2021	Dr Vinod Ramani	10.00 to 11.00	Dr Vinod Ramani	11.05 to 12.05
TOTAL NUMBER OF THEORY CLASS CONDUCTED: 24 * 1 Hrs =24 Hrs				

5. SCHEDULE OF COURSE: -

Date	Faculty Name	Time
04/10/21	Dr Jasmina Surati	9.30 AM to 04.30
05/10/21	Dr Vishnu Sutariya	9.30 AM to 04.30
06/10/21	Dr Jasmina Surati	9.30 AM to 04.30
07/10/21	Dr Ashok H AKabari	9.30 AM to 04.30
08/10/21	Mr Sagar Patel	9.30 AM to 04.30
09/10/21	Dr Basavraj S.	9.30 AM to 04.30
TOTAL NUMBER OF PRACTICAL CLASS CONDUCTED: 12 * 3HRS = 36 HRS		

6. ATTENDANCE OF PARTICIPANTS: -

Enrollment Number	Name of Students	% OF ATTENDANCE OF THEORY	% OF ATTENDANCE OF PRACTICAL
CCE00370001	BAMAN VISHALBHAI MANUBHAI	100 %	100 %
CCE00370002	CHANDANI BHARATBHAI PATEL	100 %	100 %
CCE00370003	CHAUDHARI BHUMIBEN MAHESHBHAI	100 %	100 %
CCE00370004	CHAUDHARY LALIT VENARAMBHAI	100 %	100 %
CCE00370005	HEMA VISHALKUMAR BADGUJAR	100 %	100 %
CCE00370006	JADAV DIVYABEN MAHENDRASINH	100 %	100 %
CCE00370007	KALESH KAPILABEN NARESHBHAI	100 %	100 %
CCE00370008	KSHATRIYA SHIVANI AMIT KUMAR	100 %	100 %
CCE00370009	MISTRY POOJABEN RAJESHKUMAR	100 %	100 %
CCE00370010	NINAMA HEENA SARDARBHAI	100 %	100 %
CCE00370011	PARMAR NIKUNJKUMAR NARENDRABHAI	100 %	100 %
CCE00370012	PATEL ARUN MADHUBHAI	100 %	100 %
CCE00370013	PATEL MANSI HASMUKHBHAI	100 %	100 %
CCE00370014	PATEL NIDHI ANILBHAI	100 %	100 %
CCE00370015	PATEL PARTH DILIPKUMAR	100 %	100 %
CCE00370016	PATEL SIMRANBEN NARESHBHAI	100 %	100 %
CCE00370017	PRAJAPAT LALITA TULSIRAM	100 %	100 %
CCE00370018	RAJ KRISHNABEN NARENDRASINH	100 %	100 %
CCE00370019	UPADHYAY DEVANSHI ASHVINKUMAR	100 %	100 %
CCE00370020	VADNERKAR DAMINI RAVI	100 %	100 %

6. ATTENDANCE OF PARTICIPANTS: -

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, Umrakh, Bardoli.
ATTENDANCE SHEET (1ST BATCH- SEPT 2021)

Enrollment Number	Name of Students	Sign.
CCE00370001	BAMAN VISHALBHAI MANUBHAI	V.M. Bannur
CCE00370002	CHANDANI BHARATBHAI PATEL	Chandani B.
CCE00370003	CHAUDHARI BHUMIBEN MAHESHBHAI	Bhum
CCE00370004	CHAUDHARY LALIT VENARAMBHAI	Lalit
CCE00370005	HEMA VISHALKUMAR BADGUJAR	Hema
CCE00370006	JADAV DIVYABEN MAHENDRASINH	Divya
CCE00370007	KALESH KAPILABEN NARESHBHAI	K.P. Kale
CCE00370008	KSHATRIYA SHIVANI AMIT KUMAR	Shivani
CCE00370009	MISTRY POOJABEN RAJESHBHAI	Pooja
CCE00370010	NINAMA HEENA SARDARBHAI	Heena
CCE00370011	PARMAR NIKUNJKUMAR NARENDRABHAI	Nikunj
CCE00370012	PATEL ARUN MADHUBHAI	Arun
CCE00370013	PATEL MANSI HASMUKHBHAI	Mansi
CCE00370014	PATEL NIDHI ANILBHAI	Nidhi
CCE00370015	PATEL PARTH DILIPKUMAR	Parth
CCE00370016	PATEL SIMRANBEN NARESHBHAI	Simran
CCE00370017	PRAJAPAT LALITA TULSIRAM	Lalita
CCE00370018	RAJ KRISHNABEN NARENDRASINH	Ranj
CCE00370019	UPADHYAY DEVANSHI ASHVINKUMAR	Devanshi
CCE00370020	VADNERKAR DAMINI RAVI	Damini

Examiner 1: (Name & Sign.) Dr. Gaurav Patel [Signature]

Examiner 2: (Name & Sign.) Dr. Shailesh V. Luhar [Signature]

7. EVALUATION METHODOLOGY: -

Evaluation Scheme

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.

8. EVALUATION SHEET: -

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, Umrakh, Bardoli.					
EVALUTION SHEET (1 ST BATCH- SEPT 2021)					
Enrollment Number	Name of Students	Practical [50]	Viva [25]	Synopsis [25]	Total
CCE00370001	BAMAN VISHALBHAI MANUBHAI	45	20	20	85
CCE00370002	CHANDANI BHARATBHAI PATEL	47	23	20	90
CCE00370003	CHAUDHARI BHUMIBEN MAHESHBHAI	45	18	21	84
CCE00370004	CHAUDHARY LALIT VENARAMBHAI	40	20	20	80
CCE00370005	HEMA VISHALKUMAR BADGUJAR	40	20	20	80
CCE00370006	JADAV DIVYABEN MAHENDRASINH	45	22	23	90
CCE00370007	KALESH KAPILABEN NARESHBHAI	45	20	20	85
CCE00370008	KSHATRIYA SHIVANI AMIT KUMAR	40	15	20	75
CCE00370009	MISTRY POOJABEN RAJESHKUMAR	45	22	23	90
CCE00370010	NINAMA HEENA SARDARBHAI	40	20	15	75
CCE00370011	PARMAR NIKUNJKUMAR NARENDRABHAI	40	20	15	75
CCE00370012	PATEL ARUN MADHUBHAI	40	15	15	70
CCE00370013	PATEL MANSI HASMUKHBHAI	45	20	23	88
CCE00370014	PATEL NIDHI ANILBHAI	42	20	18	80
CCE00370015	PATEL PARTH DILIPKUMAR	40	20	15	75
CCE00370016	PATEL SIMRANBEN NARESHBHAI	40	20	20	80
CCE00370017	PRAJAPAT LALITA TULSIRAM	47	23	20	90
CCE00370018	RAJ KRISHNABEN NARENDRASINH	40	20	15	75
CCE00370019	UPADHYAY DEVANSHI ASHVINKUMAR	47	23	20	90
CCE00370020	VADNERKAR DAMINI RAVI	40	20	15	75

Examiner 1: (Name & Sign.) Dr. Gaurav Patel

Examiner 2: (Name & Sign.) Dr. Shailesh V. Luhar

- All participants are successfully completed these Centre for Continuing Education, GTU Short Term Certificate Course on “HPLC” organized by Shree Naranjibhai Lalbhai Patel College of Pharmacy, Vidyabharti Trust, Umrakh.
- All participants are qualified in evaluation. So, all are eligible to get this certificate.

9. COURSE OUTCOME

After successful completion of 1st batch of short-term course on HPLC every participant are eligible to get certificate and learn following skill.

1. Participant learn to Run HPLC system: 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 Troubleshooting in 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 validate HPLC Methods: Participant learn to implement strategies to achieve validation for developed methods and use robust and fit for purpose HPLC methods.

10. FEEDBACK OF PARTICIPANTS:-

Timestamp	How was the lecture of Mr. Gunvant Yadav on Complete step by step tutorial of HPLC software?	How was the lecture of Dr. Ashvin Upadhyay on HPLC Utilization for Drug Analysis?	How was the lecture of Dr Vishnu Sutariya on Trouble shooting of the Equipment?	How was the lecture of Dr Kashyap Thummar on ABCD of HPLC?	How was the lecture of Mr Ravi Patel on Interpretation of Physicochemical parameter for HPLC method development?	How was the lecture of Dr Vinod Ramani on Application of QbD in HPLC?	How was the lecture of Dr Chainesh Shah on Application of QbD in HPLC?	How was the lecture of Dr Ashok H AKabari on HPLC instrumentation?
10/16/2021 11:04:21	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:05:17	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:05:51	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:06:44	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:07:30	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	Good
10/16/2021 11:07:36	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:07:40	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:07:50	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:07:55	Excellent	Good	Excellent	Good	Good	Excellent	Excellent	Excellent
10/16/2021 11:08:21	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:08:35	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:08:42	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:08:45	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:08:46	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:08:47	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:08:52	Excellent	Excellent	Excellent	Good	Good	Excellent	Excellent	Excellent
10/16/2021 11:08:58	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:09:09	Excellent	Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent
10/16/2021 11:15:38	Good	Good	Excellent	Good	Good	Good	Good	Good
10/16/2021 12:30:29	Excellent	Excellent	Good	Good	Good	Excellent	Excellent	Excellent

10. FEEDBACK OF PARTICIPANTS:-

How was the lecture of Dr Jasmina Surati on Basics of chromatography and HPLC?	How was the lecture of Mr Sagar Patel on HPLC calibration and Method Validation?	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 experience of Good health Pharmaceutical Pvt. Ltd analytical Lab Visit?	How was the overall experience of HPLC course?
Excellent	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
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Good	Good	Good	Good	Good	Good	Good	Good
Excellent	Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent

11. PHOTO OF SESSION (1ST HPLC BATCH- SEPT 2021)



CENTRE FOR CONTINUING EDUCATION, GTU SHORT TERM CERTIFICATE COURSE



Dr. Ashok H Akabari	Dr Dhiren P Shah
COURSE CORDINATOR	Principal
SNLPCP, Umrakh	SNLPCP, Umrakh

SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF PHARMACY, VIDYABHARTI TRUST, UMRAKH.