

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE, VASHI (Autonomous)
Department of Microbiology

MoU Activity Report
Date: 14th December 2019

Three days Workshop on Chromatography and Spectroscopy at the Institute of Chromatography and Spectroscopy, SIES, Nerul, Navi Mumbai
Details of Activity Title of Activity: Three days Workshop on Chromatography and spectroscopy at the Institute of Chromatography and Spectroscopy, SIES, Nerul, Navi Mumbai Duration: 9th, 10th & 11th December 2019 - Three Days (Total duration:- 20 hours) Attendee Number: 21 participants + 1 faculty member Name of Resource person: Dr. Vishwanath Malkar and Mr. Vivek Parab Name of Collaborating Agency: Institute of Chromatography and Spectroscopy, SIES, Nerul, Navi Mumbai
Objectives of Activity <ul style="list-style-type: none">● To get hands-on training in advanced instruments.● To observe the detailed operation of instruments.
Description of Activity <p>Three days Workshop on Chromatography and spectroscopy was carried out on 9th, 10th & 11th December 2019 (daily from 10:00 AM to 5:30 PM) at the Institute of Chromatography and Spectroscopy (ISC) at SIES College, Nerul, Navi Mumbai. This three days workshop/training program involved detailed working of Gas Chromatography-Mass Spectrometry (GC-MS), Ion Chromatography (IC), High-Pressure Liquid Chromatography (HPLC) and Fourier Transmission-Infrared Spectrometry (FT-IR).</p> <p>Day 1: Dr. Vishwanath Malkar and Mr. Vivek Parab from ISC welcomed all the students and faculty Mr Sandesh Gharge. Dr. Vishwanath Malkar explained the detailed theory of all the above-mentioned instruments.</p> <p>Day 2: The session started with a detailed practical knowledge of GC-MS. Mr Vivek explained the types of gases used in Gas chromatography and their significance along with the colour codes used to differentiate the containers. Trainer showed us the different types of Columns used in Gas chromatography namely DB1, DB5, DB27 etc. Mr. Vivek demonstrated the calibration process. He also explained the method development for the sample. Mr Vivek injected the pesticide sample into the sampler of GC-MS. The sample was run and the chromatogram was observed with the help of TURBOMASS software.</p> <p>The second half session started with Mr Vivek demonstrating Ion chromatography. He explained in detail the Pump system of the equipment that helps to load the sample. The Loop valve injector or Rheo Dyne Injector was used to inject the sample. He showed the columns used in Ion chromatography namely RP-18, C-18 etc. The software used for this technique was MAGICNETS.</p> <p>Day 3: The next session was on HPLC. Mr Vivek also mentioned that usually environmental samples like seawater are analyzed by HPLC. Additionally, the operation of FT-IR equipment was shown along with the troubleshooting of the peaks of the sample.</p> <p>In the second half of the session, an exit quiz was conducted and a mark sheet was submitted to the faculty in charge, Mr Sandesh Gharge.</p> <p>https://drive.google.com/file/d/1V9rbwvuPxVq5NAagYPz4IjOCdLzBbVc/view?usp=drive_link</p> <p>The three-day workshop ended with a vote of Thanks by Mr Sandesh Gharge. The training ended by 5:30 PM.</p>



[Signature]
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Impact of activity on the community: NA

The benefit to participants:

- a) Participants got full basic and advanced knowledge about principles and handling of instruments.
- b) Troubleshooting of all instruments was discussed with Mr Vivek Parab
- c) Detailed operation of advanced instruments was taught.

Link of activity (If Online): NA

Certificates received by students (Google Drive link):

<https://drive.google.com/file/d/1Rj05bpIISdby1RTxJ7fn4sRhDLryQi4Q/view?usp=sharing>

Attendance of participated students (Google Drive link):

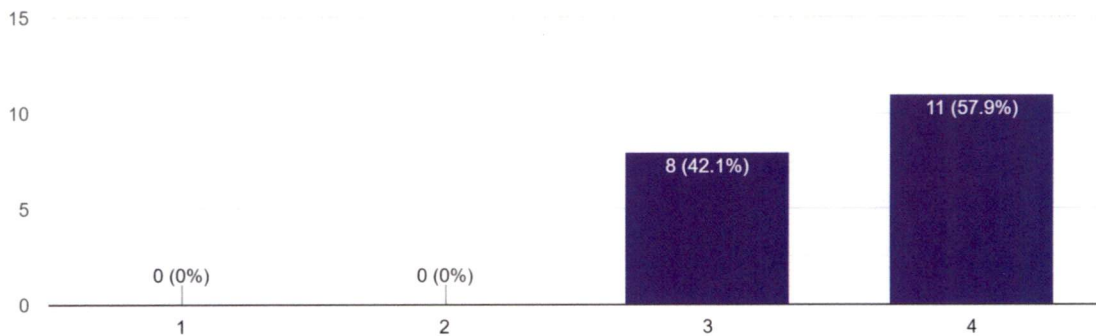
https://drive.google.com/file/d/1GJbt5ykVPQ4YR_rA1OKy06EJoAd_ZtJ6/view?usp=drive_li nk

Feedback of activity (Google Drive link):

https://docs.google.com/spreadsheets/d/1pntYoasfAm0gSwzdNGh1RpXepGMM2h15S9Ri6luP_4E/edit?usp=sharing

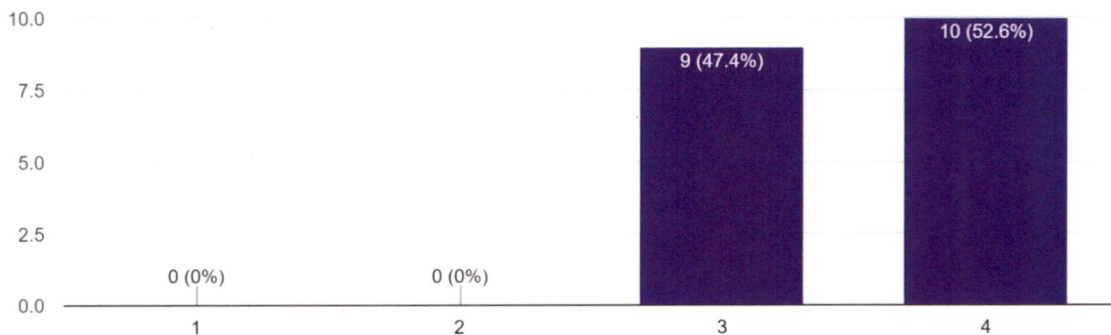
Relevance of Instruments included in the training program

19 responses



Explanation of theoretical background of instruments

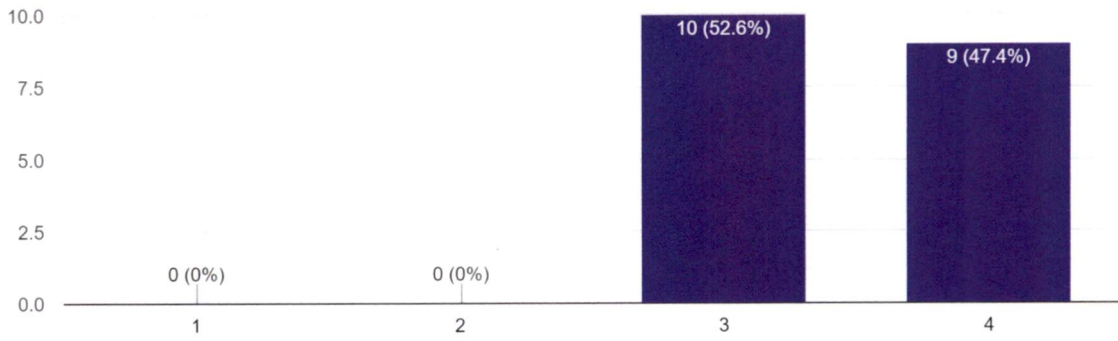
19 responses



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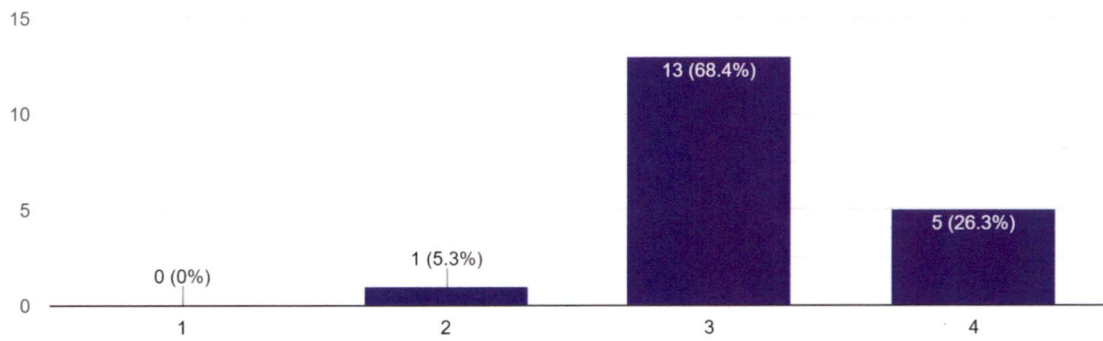
Method of teaching

19 responses



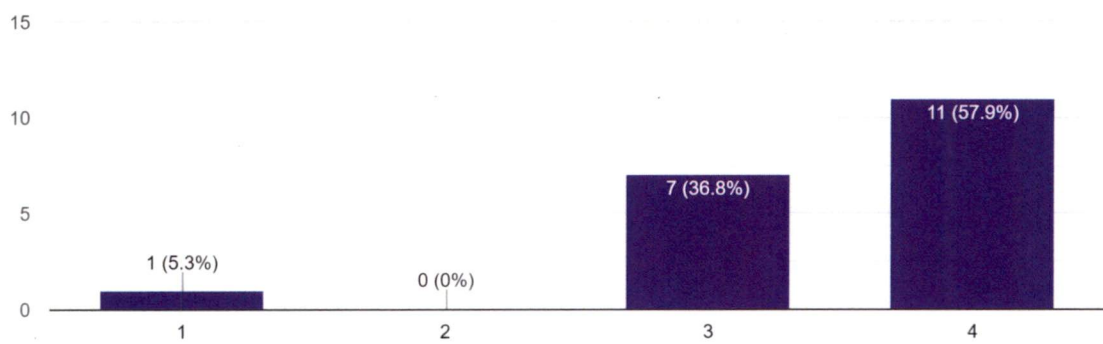
Time duration allotted for lectures

19 responses



Time duration allotted for practical sessions

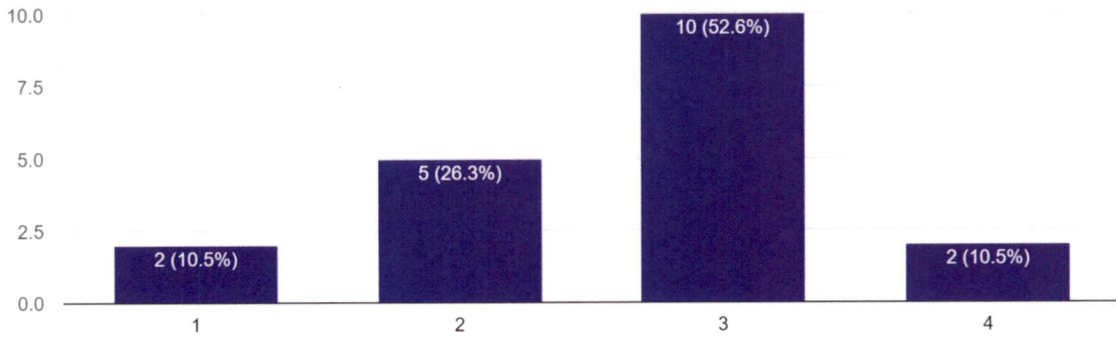
19 responses



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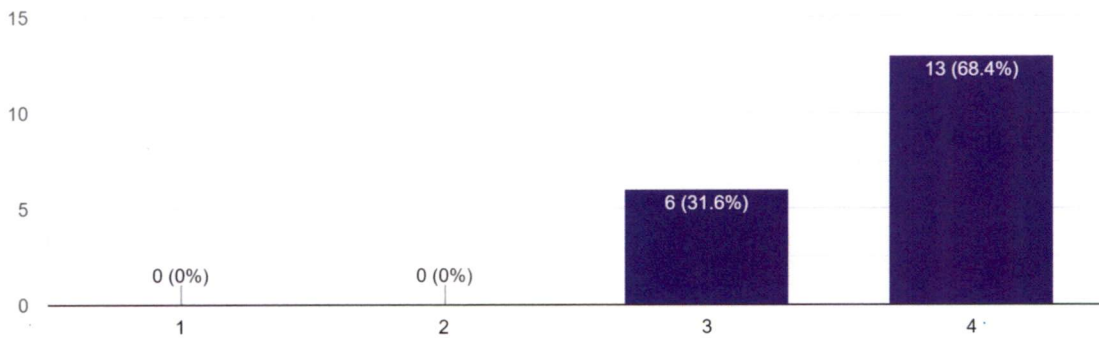
Hands-on training

19 responses



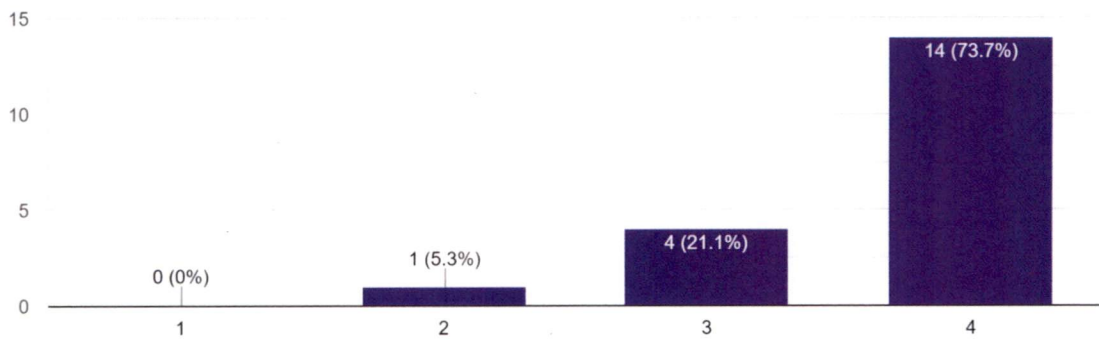
Interaction of instructor with students

19 responses



Approach and efforts of instructor towards doubt-solving.

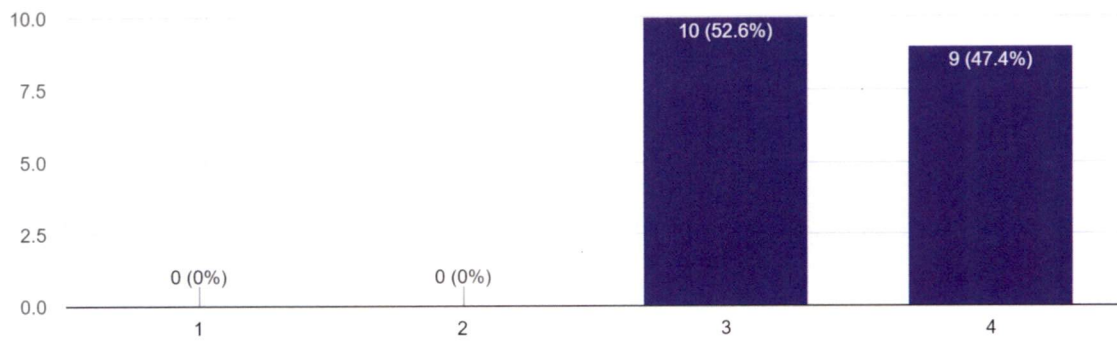
19 responses



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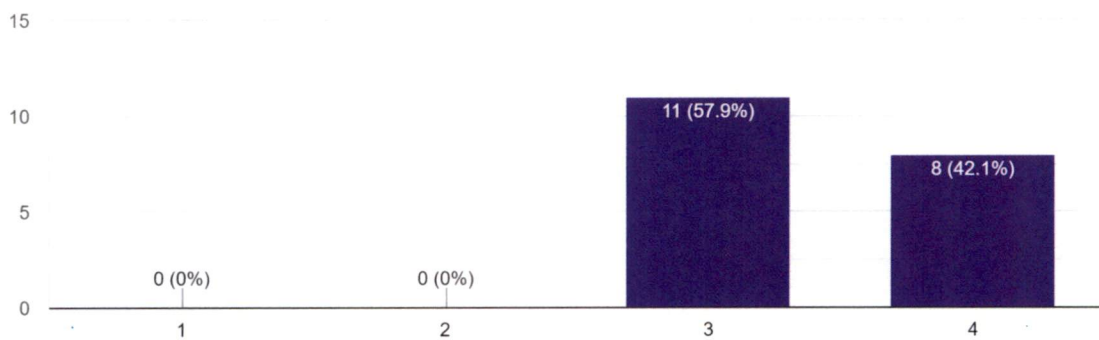
Extent of knowledge gained by students during this training program

19 responses



Method of assessment

19 responses



Photos of Activity (Geo tag):



Capt
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Vashi, Navi Mumbai - 400 703.

Three Days Workshop on Chromatography and Spectroscopy (SIES-ICS)

Marksheet

Sr.No	Roll.No	Name	Marks (Out of 40)
1	199141	Tanvi Ghodke	Absent
2	199142	Pradnya Mukadam	30
3	199143	Shruti More	34
4	199144	Sweety Tandel	24
5	199145	Parbonee Dey	20
6	199146	Ravikumar.S. Yadav	34
7	199147	Rahul Wadekar	30
8	199148	Shilpa Adhikari	24
9	199149	Krutika Khatate	34
10	199150	Mayur Atpadkar	30
11	199151	Vidhyesh Karanjavkar	28
12	199152	Shinu Yadav	30
13	199153	Priyanka Pandey	36
14	199154	Dhanashree Patil	22
15	199155	Pooja Vengurlekar	26
16	199156	Ajinkya Pawar	28
17	199157	Anit Maurya	16
18	199158	Jayashri Pawar	34
19	199159	Kajal Phadtare	28
20	199160	Sonia Bhekre	16
21	199161	Komal Chavan	20



(Signature)
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 Vashi, Navi Mumbai - 400 703.

Evaluated by

(Signature)
 SIES-ICS



SIES

RISE WITH EDUCATION

Institute of
Chromatography
and Spectroscopy

Certificate of Attendance

presented to

Mayur Atpadkar

*for participating actively in the "Three days workshop on Chromatography and Spectroscopy"
at SIES Institute of Chromatography and Spectroscopy
in Nerul on 9th, 10th and 11th December, 2019*

V. Malkar

Dr. Vishwanath Malkar, Honorary Director

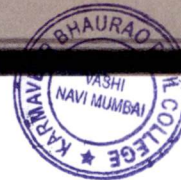
SIES Institute of Chromatography and Spectroscopy

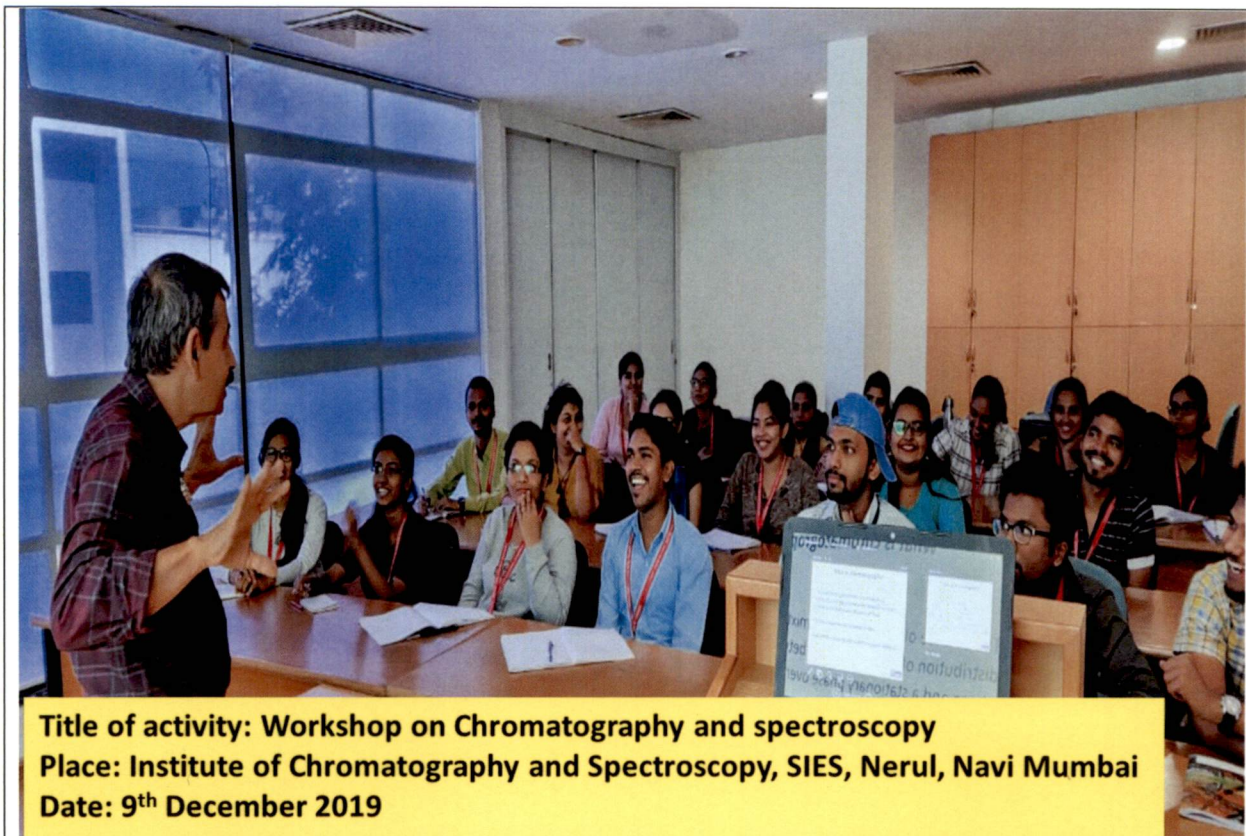
Sri Chandrasekarendra Saraswathy Vidyapuram

Nerul, Navi Mumbai- 400 706

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Nerul, Navi Mumbai, 400 703





Title of activity: Workshop on Chromatography and spectroscopy
Place: Institute of Chromatography and Spectroscopy, SIES, Nerul, Navi Mumbai
Date: 9th December 2019

Dr. Vishwanath Malkar, Honorary Director, explaining the principles of all the instruments to the M.Sc. Part II students




Title of activity: Workshop on Chromatography and spectroscopy
Place: Institute of Chromatography and Spectroscopy, SIES, Nerul, Navi Mumbai
Date: 9th December 2019




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Dr. Vishwanath Malkar, Mr. Vivek Parab and all M.Sc. Part II students after successful completion of three days workshop under MoU.

News paper cutting: NA


14-12-2019
HEAD


SIES INSTITUTE OF CHROMATOGRAPHY AND SPECTROSCOPY
School of Packaging (SOP) Building, SIES Campus,
Sri Chandrabakorendra Saraswathy Viharapuram,
Plot - 1 C, Sector V, Nerul, Navi Mumbai - 400708
Tel: 022-01108452


14-12-2019
I/c. Principal

Signature of HOD
Department of Microbiology
K.B.P. College, Vashi, Navi Mumbai

Signature of MOU authority (second party)

Signature of
Karmajee Bhauro Patil College
Vashi, Navi Mumbai - 400703.
Principal

