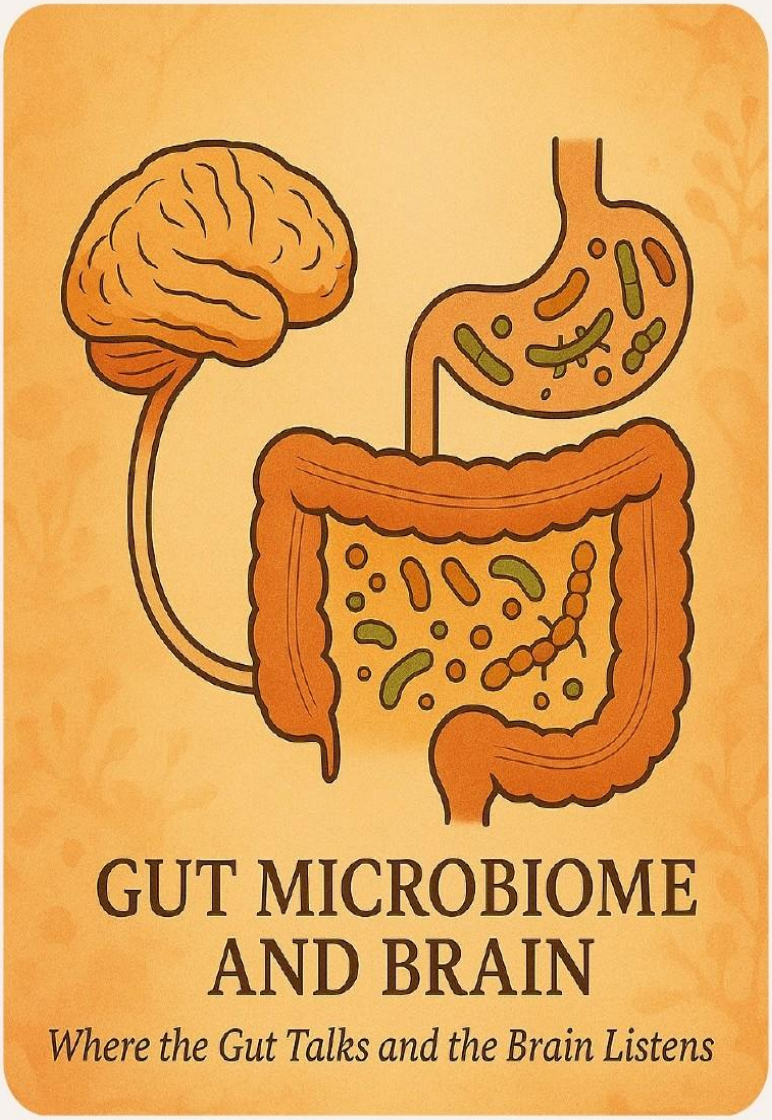
ISN
International Society for Neurochemistry

NIMHANS-ISN

School on Gut Microbiome

GUT TO BRAIN: ADVANCEMENTS IN MICROBIOME AND METABOLITE INVESTIGATIONS FOR NEUROPSYCHIATRIC DISORDERS (GB-MIND)



Gut to Brain: Advancements in Microbiome and Metabolite Investigations for Neuropsychiatric Disorders (GB-MIND)
9th to 16th July 2025

SCHOOL COMPLETION REPORT

ABOUT THE SCHOOL

The NIMHANS-ISN School on Gut Microbiome; Gut to Brain – Advancements in Microbiome and Metabolite Investigations for Neuropsychiatric Disorders (GB-MIND) was held from 9th to 16th July 2025 at the National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, India. The primary objective of the school was to provide young researchers with in-depth knowledge on the gut microbiome and its metabolites in relation to neuropsychiatric disorders, while equipping them with hands-on training in advanced methodologies such as 16S rRNA sequencing, Liquid Chromatography–Mass Spectrometry (LC-MS), and Gas Chromatography (GC-MS). A total of 25 participants from diverse academic backgrounds took part, guided by 18 eminent resource persons from leading national and international institutions.

The program featured lectures on gut–brain axis mechanisms, metabolomic approaches, and microbiome analytics; hands-on workshops on sample preparation, sequencing pipelines, data processing, and statistical analyses; as well as panel discussions and case studies linking laboratory research with clinical applications. In addition, participants benefited from structured networking opportunities with experts, a woman-only fitness initiative titled “THANDAV” emphasizing the role of physical health in metabolic wellbeing, and a scientific–cultural exposure visit to Mysuru.

In total, this eight-day School not only enhanced participants’ technical expertise but also fostered critical thinking, cross-disciplinary collaboration, and innovative research ideas, thereby inspiring the next generation of scientists to advance microbiome and metabolite investigations in the context of neuropsychiatric disorders. The program was a resounding success in terms of both its academic impact and participant engagement, and this report is respectfully submitted to ISN upon its completion.

VENUE

1. **LECTURES AND PRACTICAL SESSIONS:**

The National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, is a premier institute for mental health and neurosciences in India, well equipped with modern infrastructure to host international training programs and workshops. With state-of-the-art laboratories, lecture

halls, seminar spaces, and guest houses, the campus provided an ideal setting for immersive scientific training as well as academic interactions.

For the NIMHANS-ISN School (GB-MIND, 2025), the Director's Office Seminar Hall served as the primary venue for inaugural events, keynote lectures, and interactive sessions. Hands-on training modules and technical workshops were conducted in the Departments of Neurochemistry and Neurophysiology, which house advanced research facilities including LC-MS, HPLC GC-MS, and sequencing laboratories. Additional lectures and technical sessions took place in a well-equipped Lecture Hall, providing a formal classroom setting for group learning.

2. ACCOMODATION AND FOOD:

Participants were accommodated in the Kabini Guest House and resource persons were accommodated in the Krishna Guest House, both located within the NIMHANS campus, ensuring convenient travel and fostering informal interactions. Meals and evening gatherings were also hosted at the Krishna Guest House dining hall. The campus facilities, combined with the academic environment of NIMHANS, created an excellent atmosphere for knowledge exchange, collaboration, and networking throughout the eight-day program.

ORGANISING COMMITTEE

Organising Committee

Chief Patron

Prof. Pratima Murthy
Director,
NIMHANS

Patron

Prof. Thennarasu Kandavel
Dean,
Basic Sciences

Organizing Secretary

Dr. Gokulakrishnan Kuppan
Associate Professor,
Neurochemistry

Joint organizing Secretary

Dr. B. N.Srikumar
Additional Professor,
Neurophysiology

Advisors

Shri. Harsha A H
Registrar,
NIMHANS

Dr. B S Shankaranarayana Rao
Professor,
Neurophysiology

Prof. T N Sathyaprabha
Associate Dean
Basic Sciences

Dr. Sarada Subramanian
Professor & Head,
Neurochemistry

Scientific Committee

Dr. B Padmanabhan
Professor & Head
Biophysics

Dr. Laxmi T. Rao
Professor & Head
Neurophysiology

Dr. M M Srinivas Bharath
Professor & Head
CPNT

Dr. Nandakumar D N
Professor,
Neurochemistry

Dr. Monojit Debnath
Professor & Head,
Human Genetics

Dr. Subhash Chandrabose C
Additional Professor
Neurochemistry

Dr. Phalguni Anand Alladi
Scientist G
CPNT

Travel and Accommodation

Dr. Mathivanan Jothi
Additional Professor
Human Genetics

Registration

Dr. Ravish H
Assistant Professor
Neurochemistry

Dr. Kruthika Vinod
Scientific F
Neurochemistry

Hospitality

Dr. Sivaraman P
Associate Professor
Biophysics

Dr. Govindaraj P
Assistant Professor
Neuropathology

ELIGIBILITY CRITERIA

The eligibility criteria kept for selection were:

- Up to 20 young scientists interested in gut microbiome and metabolomics research (15 from within India and 5 young scientists from around the world), will be selected based upon their academic credentials.
- Application is only open for PhD students with at least one year of lab experience in their PhD project or Postdoc (up to 5 years after the year the doctoral degree was awarded)
- Applicants who have already attended any previous ISN School will not be considered for the ISN: Gut-Microbiome school

LIST OF PARTICIPANTS

S. No	First Name	Last Name	E Mail	University/Institute/College	Place, Country
1	Dhanalakshmi	Mariappan	dhanalakshmi.mariappan@sbdch.bharathuniv.ac.in	Bharath Institute of Higher Education and Research	Chennai, India
2	Asem Sanjit	Singh	sanjitasem21@gmail.com	Indian Institute of Science	Bangalore, India
3	Ann Catherine	Archer	archerann@jssuni.edu.in	JSS Academy of Higher Education & Research	Mysuru, India
4	Srishti	Yaduvanshi	srishtigkp2013@gmail.com	Mahayogi Gorakhnath University	Gorakhpur, India
5	Surya	K	suryakumar72094@gmail.com	Bharathidasan University	Tiruchirappalli, India
6	Aliya	Mufti	aliyamuftiaiims@gmail.com	AIIMS Delhi	New Delhi, India
7	Rishikesh	Rishikesh	rishikesh@cusat.ac.in	Cochin University of Science And Technology	Kochin, India
8	Dayamrita	K K	kkdayamrita@gmail.com	Centre for Neuroscience, CUSAT	Kochin, India

9	Akash Kumar	Kharwar	thisakashkharwar@gmail.com	NIPER Hyderabad	Hyderabad, India
10	Km Neha	Sharma	ns146049@gmail.com	NIPER Hyderabad	Hyderabad, India
11	Ansh	Tandon	ansh@icgeb.res.in	International Centre for Genetic Engineering and Biotechnology	India
12	Payal	Gupta	payal.gupta0004@gmail.com	Amity University	Noida, India
13	Pallavi	R	pallavir@jssuni.edu.in	JSS AHER	Mysuru, India
14	Rosemary	Shaji V	rosemaryshajiv@gmail.com	NIMHANS	Bengaluru, India
15	Priyadharshini	C	priyasuguna222@gmail.com	Vellore Institute of Technology	Chennai, India
16	Remya	Chandran	remchandra@jmmc.ac.in	Jubilee Mission Medical College and Research Institute	Thrissur, India
17	Taiba	Nafis	taibanafis@gmail.com	Dr. A.P.J. Abdul Kalam Technical University (AKTU)	Lucknow, India
18	Pragati	Rai	raipragati167@gmail.com	University of Lucknow	Lucknow, India
19	Mansa	Pandey	MANSAAPM99@gmail.com	University of Lucknow	Lucknow, India
20	Kirti	Arora	arorakirti815@gmail.com	Panjab University	Chandigarh, India
21	Murugesan	K	mugeshbms077@gmail.com	Sri Narayani Hospital & Research Centre	Vellore, India
22	Satya	Prakash	satpr0498@gmail.com	University of Lucknow	Lucknow, India

23	Maria Carolina	Fortunato	mcarolinafortunato@gmail.com	University of Coimbra	Coimbra, Portugal
24	Deekshika	Sekar	ds2@huskers.unl.edu	University of Nebraska - Lincoln	USA
25	Sri Sundar Rajan	Kannan	sundar.kannan@tum.de	Technical University of Munich	Munich, Germany

- No. of Females: 17
- No. of Males: 08
- Gender Distribution: Female (68%) and Male (32%)

LIST OF RESOURCE PERSONS

Sl. No	Name	Designation	Topic(s)
1	Dr. B. S. Shankaranarayana Rao	Professor, Department of Neurophysiology, NIMHANS, Bengaluru, India	Neural plasticity and brain repair mechanisms: New challenges in treating neurological and psychiatric disorders
2	Prof. Jerzy Adamski	Professor, Institute of Biochemistry, Faculty of Medicine, University of Ljubljana, Slovenia	1) Integration of omics technologies in health and disease: Examples from microbiome and neurological studies 2) Critical elements of study design for metabolomics
3	Dr. Jatin Nagpal	Senior Scientist, APC Microbiome & Lecturer, Dept. of Pharmacology & Therapeutics, University College Cork, Ireland	1) Microbiota–gut–brain axis: Focus on stress and social behaviour 2)Microbiome–brain communication: Moving towards mechanisms in 'simple' model organisms

4	Dr. R. M. Anjana	President, Madras Diabetes Research Foundation (MDRF), Chennai, India	Running on microbes: How physical activity shapes the gut–brain connection
6	Dr. María Rodriguez Aburto	Group Leader, APC Microbiome & Senior Lecturer, Dept. of Anatomy & Neuroscience, University College Cork, Ireland	1) The gut microbiome as a key regulator of neurodevelopment 2) Gastrointestinal and brain barriers: Unlocking gates of communication across the microbiota–gut–brain axis
7	Dr. Sapna Sharma	Deputy Group Leader, Helmholtz Zentrum München, Germany	1) Integrative multi-omics insights into cardiometabolic and mental health from large German cohorts 2) Biostatistical analysis of high-throughput metabolomics data
8	Mr. Thirumoorthy Chinnasamy	PhD Scholar, Department of Neurochemistry, NIMHANS, Bengaluru, India	Understanding 16S rRNA sequencing: An overview
9	Dr. Taposh Kumar Gorella	Principal Application Scientist, WATERS Asia Pacific, Bengaluru, India	Recent advancements in mass spectrometry and its applications in current clinical industry
10	Dr. M. Balasubramanyam	ICMR Emeritus Scientist, Professor & Advisor, MDRF, Chennai, India	Role of gut microbiome and metabolites in health and disease: Advances in neuropsychiatric disorders
11	Dr. Abhishek Sengupta	Assistant Professor, Amity Institute of Biotechnology, Noida, India	Decoding autism from within: Microbiome biomarkers revealed by systems biology
12	Dr. Priyanka Narad	Scientist C (Bioinformatics), ICMR Headquarters, New Delhi, India	Beyond the Gut: AI-powered discovery in microbiome and mental health research
13	Dr. Geetha Desai	Professor, Department of Psychiatry, NIMHANS, Bengaluru, India	Mind matters: Prioritizing mental health during your PhD.

14	Dr. Baby Chakrapani	Hon. Director, Centre for Neuroscience & Asst. Professor, Dept. of Biotechnology, CUSAT, Kochi, India	Gut–Brain-Axis disruptions drive neurodevelopmental and neurodegenerative pathologies
15	Dr. Arno Bouwens (Virtual Talk)	R&D Director, Perseus Biomics BV, Belgium	Fast and robust microbiome profiling with strain resolution using optical mapping
16	Mr. Rahul K. & Ms. Sreedevi P. S.	PhD Scholars, Department of Neurochemistry, NIMHANS, Bengaluru, India	Data analysis techniques in LC-MS-based metabolomics
17	Dr. Kishore Kumar Ramakrishna	Professor & Head, Department of Integrative Medicine, NIMHANS, Bengaluru, India	Ancient solution for modern gut: Integrating Ayurveda and gut health
18	Dr. Manoj Dandekar	Assistant Professor, Dept. of Biological Sciences, NIPER, Hyderabad, India	A radical approach for erasing unrelenting depression with gut bacteria
19	Dr. Vishwanathan	Field Application Scientist, Premas Lifesciences Pvt. Ltd., India	16S rRNA sequencing: Workflow demo
20	Mr. Krushna Chandra Murmu	Bioinformatics Specialist, Premas Lifesciences Pvt. Ltd., India	Introduction to 16S rRNA sequencing: Data analysis workflow and interpretation
21	Dr. Vinod Tiwari	Associate Professor, Dept. of Pharmaceutical Engineering & Technology, IIT (BHU), India	Beyond the gut: How gut microbiota influence neuropathic pain pathways
22	Dr. Usha Rani D	Sr. Principal Scientist, Department of Food Safety and Analytical Quality Control Laboratory, CFTRI, Mysore, India.	Mass Spectrometry-Based Profiling of Short-Chain Fatty Acids
23	Dr. Vinay Khanna	Former Chief Scientist and Professor – AcSIR, Former Area Coordinator - System Toxicology and Health Risk Assessment Group. CSIR - Indian Institute of Toxicology Research, Lucknow, India.	Art of effective oral presentation in scientific conferences

LIST OF VOLUNTEERS / Instructors

S. No	Name	Designation	Department	Topic	Mail id
1	Mr. Thirumoorthy Chinnasamy	PhD Scholar	Neurochemistry	16s rRNA sequencing	thiruneurochem@gmail.com
2	Mr. Nikhil P. J	PhD Scholar	Neurochemistry	LC-MS	nikhiljoy36@gmail.com
3	Ms. Sreedevi P. S	PhD Scholar	Neurochemistry	LC-MS	psreedevisreekumar@gmail.com
4	Mr. Nilesh Barman	PhD Scholar	Neurochemistry	GC-MS	barmannil@gmail.com
5	Mr. Rahul Kannan	Junior Research Fellow	Neurochemistry	GC-MS	rahulkannan.bdu@gmail.com
6	Ms. Pooja Ghosh	Post Doctoral Fellow	Neurophysiology	HPLC	poojaghosh711@gmail.com
7	Ms. Keerthana P	PhD Scholar	Neurophysiology	HPLC	keerthana.padmanabhan91@gmail.com
8	Ms. Ganga K	PhD Scholar	Neurophysiology	HPLC	gangesneuro@gmail.com
9	Mr. Nischay Jaiswal	PhD Scholar	Neurophysiology	HPLC	NISCHAYJAISWAL1@gmail.com
10	Mr. Yashwanth	Project Intern	Neurochemistry	16s rRNA sequencing	yashm270502@gmail.com
11	Ms. Jerusha Varghese	Project Intern	Neurochemistry	GC-MS	varghese.jerusha@gmail.com
12	Mr. Vikas V	Project Intern	Neurophysiology	HPLC	Vikasvvikas12@gmail.com

DAY WISE ACTIVITIES OF THE SCHOOL

Day 1 – Wednesday, 9 July 2025

The day began with the registration of participants and resource people, followed by the inaugural session. A total of 26 participants registered for the school, while the registration of resource persons was carried out on the day of their respective sessions.

Day 2 – Thursday, 10 July 2025

The day started with the registration of participants and resource people followed by an inaugural session. In total, 26 participants registered for the school. The registration for the resource persons was done each day of their respective talks.

The school was formally inaugurated with an introductory ceremony. Dr Gokulakrishnan Kuppan, Organising Secretary of NIMHANS-ISN School, welcomed the gathering. The dice was made prestigious by the presence of the Director and Registrar of NIMHANS. The chief guest for the session was Prof. D Nagaraja, former director of NIMHANS, and the guest of honour was Dr Jerzy Adamski. All the participants and resource people introduced themselves, and the session ended with a vote of thanks by Dr B N Srikumar, joint organising secretary of NIMHANS-ISN School on Gut microbiome. The session was followed with a group photograph.


NIMHANS-ISN School on Gut Microbiome
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INVESTIGATIONS FOR NEUROPSYCHIATRIC DISORDERS (GB-MIND)
ISN
ORGANIZED BY
THE DEPARTMENTS OF NEUROCHEMISTRY & NEUROPHYSIOLOGY
SHRI. HARSHA A. H.


NIMHANS-ISN School on Gut Microbiome
ISN

Scientific sessions began with a lecture by Dr. B. S. Shankaranarayana Rao (NIMHANS) on neural plasticity and brain repair mechanisms, followed by Prof. Jerzy Adamski (Slovenia) on integration of omics technologies in health and disease. Dr. Jatin Nagpal (APC Microbiome, Ireland) delivered a session on the microbiota–gut–brain axis and stress. Later, Dr. R. M. Anjana (MDRF, Chennai) discussed microbes and physical activity, and Dr. María Rodriguez Aburto (APC Microbiome, Ireland) spoke on the gut microbiome as a regulator of neurodevelopment. The final lecture of the day by Dr. Sapna Sharma (Helmholtz, Germany) covered multi-omics insights into cardiometabolic and mental health.

A special highlight of the day was “THANDAV”, a friendly dance-based fitness program for women, which was a high-intensity interval training led by Dr Anjana and Dr Ranjani Harish, emphasising the role of lifestyle and exercise in metabolic health. It was fun relaxing and also throwed a light on the importance of fitness and health. The day closed with networking over dinner at the Krishna Guest House.

Day 3 – Friday, 11 July 2025

The morning opened with a technical session by Mr. Thirumoorthy Chinnasamy (NIMHANS) on 16S rRNA sequencing. Dr. Taposh Kumar Gorella (Waters, Bengaluru) presented advancements in mass spectrometry. Dr. M. Balasubramanyam (MDRF, Chennai) spoke on the role of microbiome and metabolites in health and disease, and Dr. Abhishek Sengupta (Amity University, India) presented microbiome biomarkers in autism.

In the afternoon, the first round of practical sessions commenced: Group A worked on fecal DNA isolation, while Groups B and C performed plasma sample preparation for metabolomics (LC–MS). This was the first opportunity for participants to gain hands-on exposure to cutting-edge methods.

Day 4 – Saturday, 12 July 2025

Hands-on training continued with LC–MS instrumentation and sample runs. Scientific lectures included Prof. Adamski on study design in metabolomics, Dr. Sapna Sharma on biostatistical

analysis, Dr. Jatin Nagpal on microbiome–brain communication in model organisms, and Dr. Priyanka Narad (ICMR, New Delhi) on AI in microbiome and mental health research.

The afternoon hosted a career-oriented panel discussion moderated by Dr. Srinivas Bharath (NIMHANS), with speakers from academia, industry, funding agencies, clinical research, and scientific writing. This interactive session gave participants insights into diverse career paths after PhD, and everyone shared their own experience of their career choices and how they tackled the struggles in their path.

The day concluded with a poster presentation where participants showcased their ongoing research. This was a great opportunity for all the participants to discuss their work and 4 judges were there for the session. Based on this, 4 winners were assigned. The winners were:

1. Dr. Ann Catherine Archer, JSS Academy of Higher Education & Research, Mysuru
2. Ms. Payal Gupta, Amity University, Noida
3. Ms. Kirti Arora, Panjab University
4. Mr. Surya K, Bharathidasan University

The winners were given the best poster award at the time of valedictory function.

Day 5 – Sunday, 13 July 2025

A one-day trip to Mysuru was arranged, allowing participants to explore the cultural heritage of Karnataka and strengthen informal bonds with peers and faculty. The trip also provided space for scientific and personal networking outside the classroom setting.





Day 6 – Monday, 14 July 2025

Practical Session III began with SCFA isolation (GC–MS), 16S rRNA library preparation, and neurotransmitter analysis (HPLC). Lectures featured Dr. Geetha Desai (NIMHANS) on mental health during PhD, Dr. Baby Chakrapani (CUSAT, Kochi) on gut–brain axis disruptions in neurodevelopmental and neurodegenerative diseases, and Dr. Arno Bouwens (Perseus Biomics, Belgium) on optical mapping for microbiome profiling. Afternoon hands-on sessions consolidated the morning modules, giving participants deeper technical skills.

Day 7 – Tuesday, 15 July 2025

Training continued with modules on 16S sequencing, neurotransmitter measurement, and SCFA analysis. A technical session on LC–MS metabolomics data analysis was conducted by Mr. Rahul K. and Ms. Sreedevi P. S. (NIMHANS), demonstrating in-house expertise. Lectures followed: Dr. Kishore Kumar Ramakrishna (NIMHANS) presented Ayurveda and gut health, while Dr. Manoj Dandekar (NIPER, Hyderabad) spoke on gut bacteria in depression therapy. The day closed with continued practical rotations across all groups.

Day 8 – Wednesday, 16 July 2025

The final day focused on sequencing and bioinformatics. Dr. Vishwanathan (Prema's Lifesciences, India) delivered sessions on 16S workflow and sequencing demos. Mr. Krushna Chandra Murmu (Prema's, India) introduced data analysis workflows for microbial community profiling. Afternoon lectures included Dr. Vinod Tiwari (IIT-BHU, Varanasi) on gut microbiota and neuropathic pain, Dr. Usha Rani D (CFTRI, Mysuru) on SCFA profiling using mass spectrometry, and Dr. Vinay Khanna (CSIR-IITR, Lucknow) on effective oral presentation skills.

The school concluded with a Valedictory Function and distribution of participation certificates. The valedictory function was honored by the presence of Dr. Vinay Khanna, Dr. D Sathyaprabha, Associate dean of NIMHANS. Dr. B N Srikumar welcomed the gathering and Dr. Gokulakrishnan Kuppan proposed the closing remarks. The winners of the poster presentation and all the participants and volunteers were given certificate and momentos.




This was followed by a session where participants proposed their feedback and suggestions and then by a farewell group photograph.

LECTURE SESSIONS


MHANS
IHANS
NIMHANS
PRESENTED BY THE PARTICIPANTS OF FIRST DIPLOMATE
COURSE IN PSYCHIATRY FOR GENERAL
PRACTITIONERS. 1979-1980
Beyond the Gut: How Gut Microbiota Influence Neuropathic Pain Pathways
Types of Mass Spectrometry
Sample introduction
Interfacing
Ion Source
Analyzer
Detector
GC
LC
HPLC
Nanospray
EI
CI
FAB
MALDI
ESI
APCI
Thermospray
Particle Beam
Quadrupole
Sector
TOF
FT-ICR
Ion Trap
MS/MS – Q/TOF, TOF/TOF
HRMS
LRMS
Microbiome


apc Microbiome Ireland
Microbiota-Gut-Brain Axis: Focus on Stress and Social Behaviour
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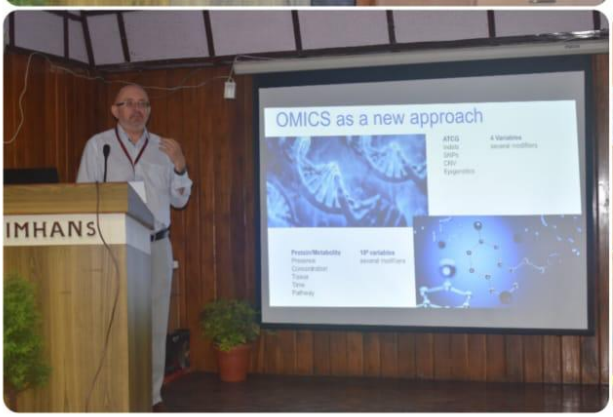
OMICS as a new approach
IMHANS


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NEURAL PLASTICITY AND BRAIN REPAIR MECHANISMS
New Challenges in Treating in Neurological and Psychiatric Disorders
B. S. SHANKARANARAYANA RAO, FIANS, FIARS, FSAB
Professor, Department of Neurophysiology
NIMHANS-ISN School on Gut Microbiome
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COURSE IN PSYCHIATRY FOR GENERAL
PRACTITIONERS. 1979-1980
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TECHNICAL AND PRACTICAL SESSIONS


BIO-RAD
HORIBA


GUT MICROBIOME
AND BRAIN

FINANCIAL SUPPORT

The NIMHANS–ISN School on Gut Microbiome (GB-MIND 2025) received financial assistance from multiple sources, including external agencies and local vendors.

The Anusandhan National Research Foundation (ANRF), an apex body that promotes R&D and fosters innovation in India, had invited applications for the conduct of workshops, webinars, and conferences. Upon successful application, ANRF sanctioned an amount of ₹2,50,000/–, which was utilized under the approved heads of travel for young Indian researchers, printing, and contingency expenses.

In addition, several vendors extended their support, both financially and in-kind, which greatly facilitated the smooth organization and execution of the school.

FINAL BUDGET

	TOTAL	ANRF	SPONSORSHIP	ISN
Accommodation	5891.685393	1123.595506		4768.089888
Food	6701.314607			6701.314607
Taxi charges	1438.202247			1438.202247
consumable	11235.95506	1123.595506	280.8988764	9831.460674
Printing	1764.842697	561.7977528	561.7977528	641.247191
ID trophy	619.6404494			619.6404494
Stationary	162.9213483			162.9213483
Mysore Trip	2187.58427			2187.58427

Miscellaneous	213.4831461			213.4831461
Overhead	2240			2240
TOTAL	32455.62921	2808.988764	842.6966292	28803.94382

OTHER DOCUMENTS

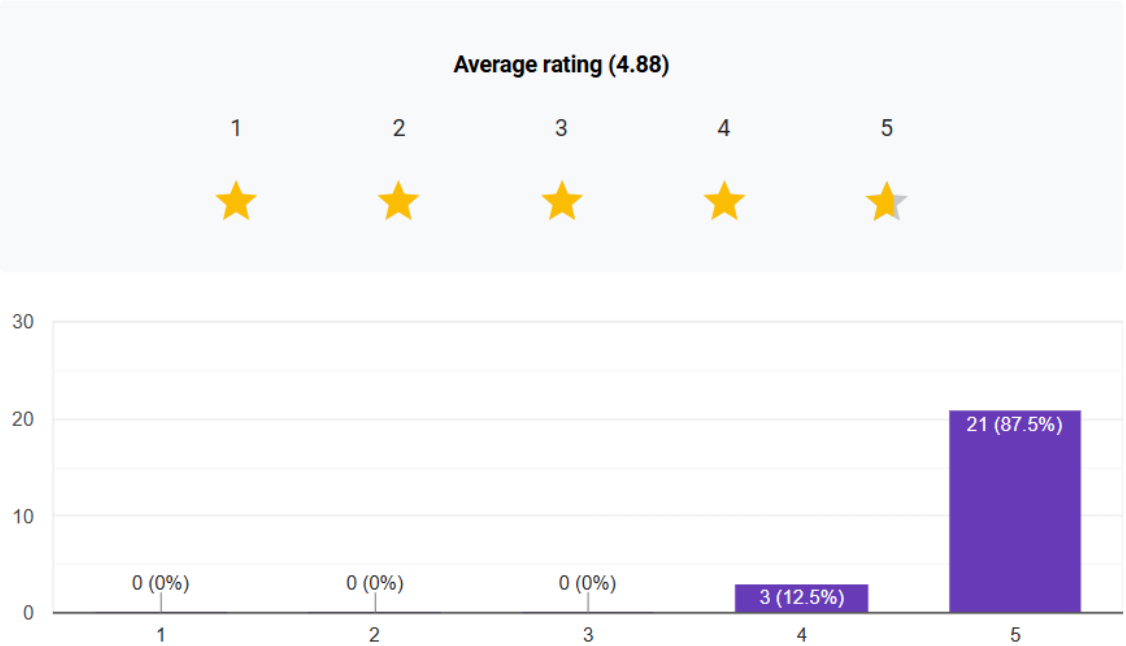
The other documents of the program like flyer, certificates, best poster awards, mementos etc. can be accessed using the following link:

https://drive.google.com/drive/folders/16KNJGJ1Q6Ovi6A2dhuA3_U0nUj2DfNOe?usp=drive_link

FEEDBACK FORM

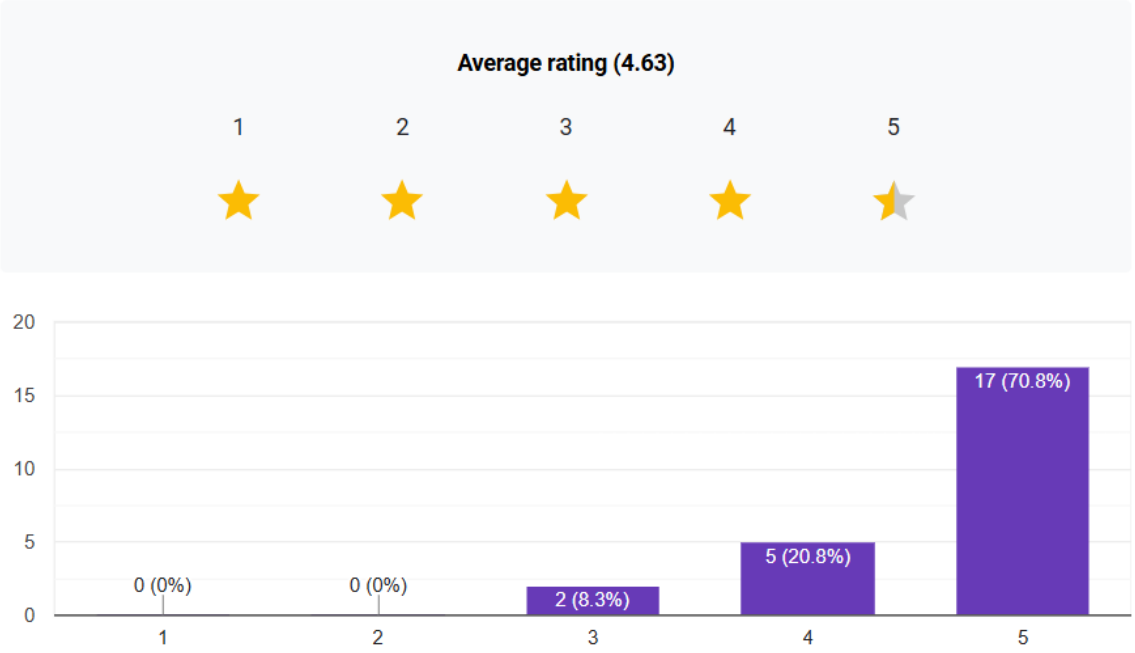
How relevant the lectures and talks were to the proposed theme of the ISN School?

24 responses



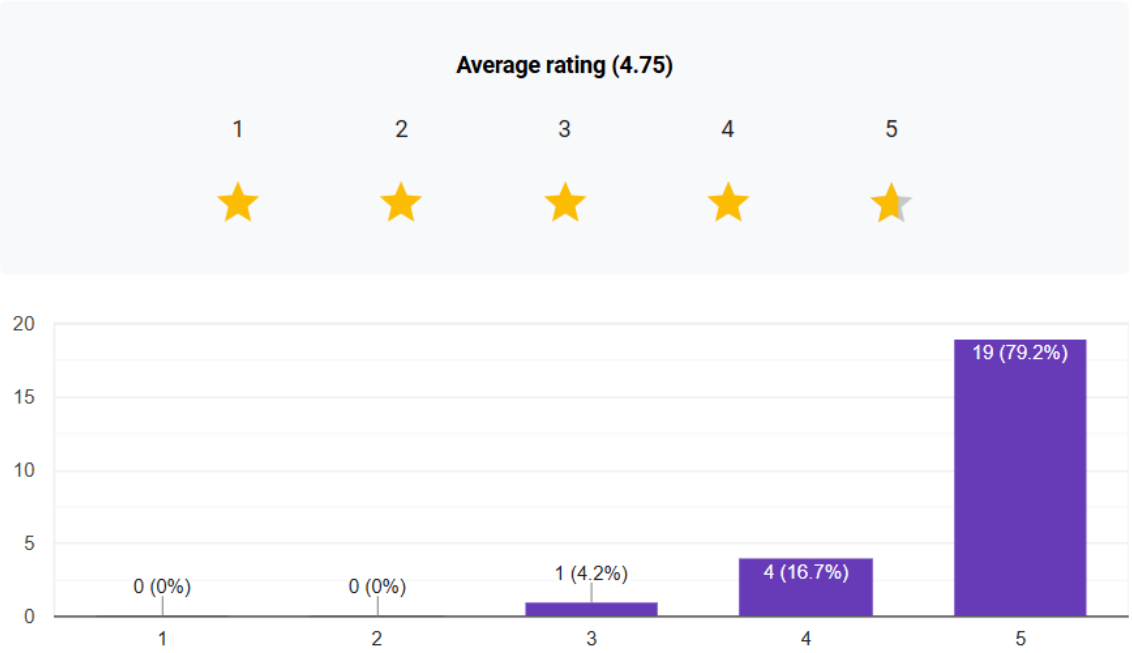
How relevant the lectures and talks were to your field of research?

24 responses



How was the seating arrangement in the venue?

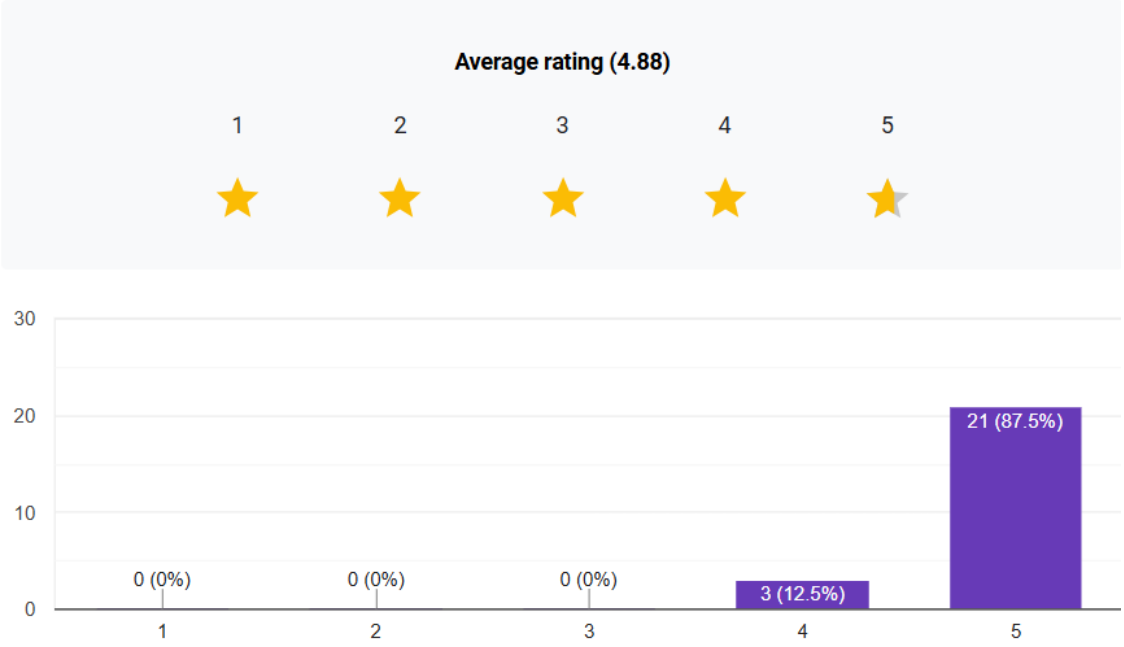
24 responses



How was your overall experience?

Copy chart

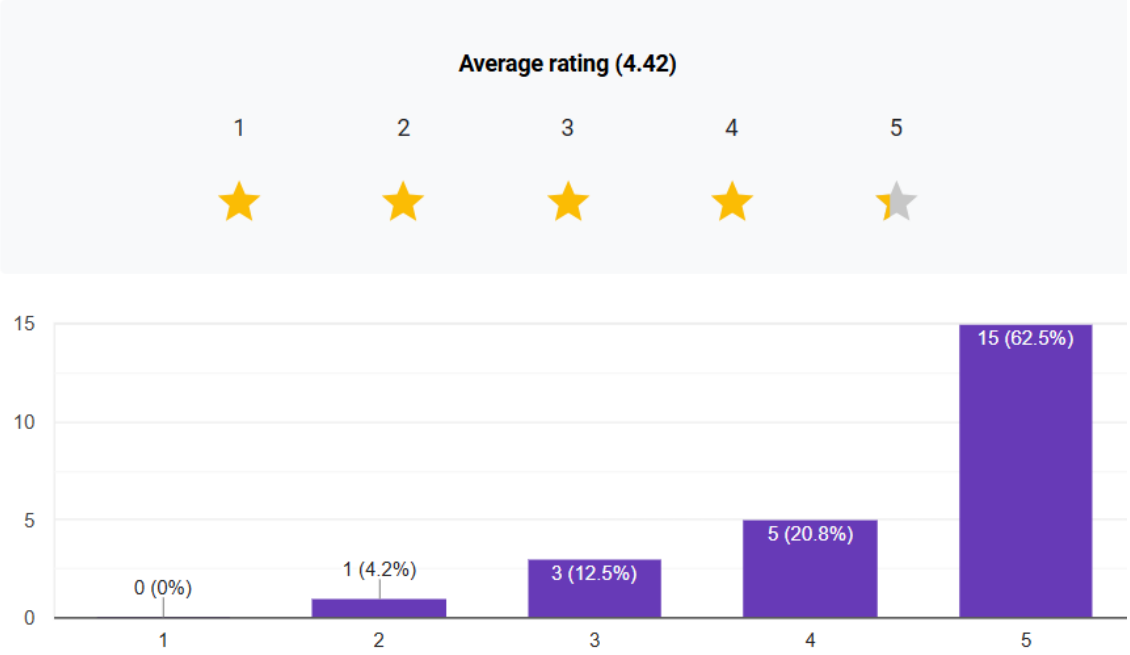
24 responses



How informative was the panel discussion?

Copy chart

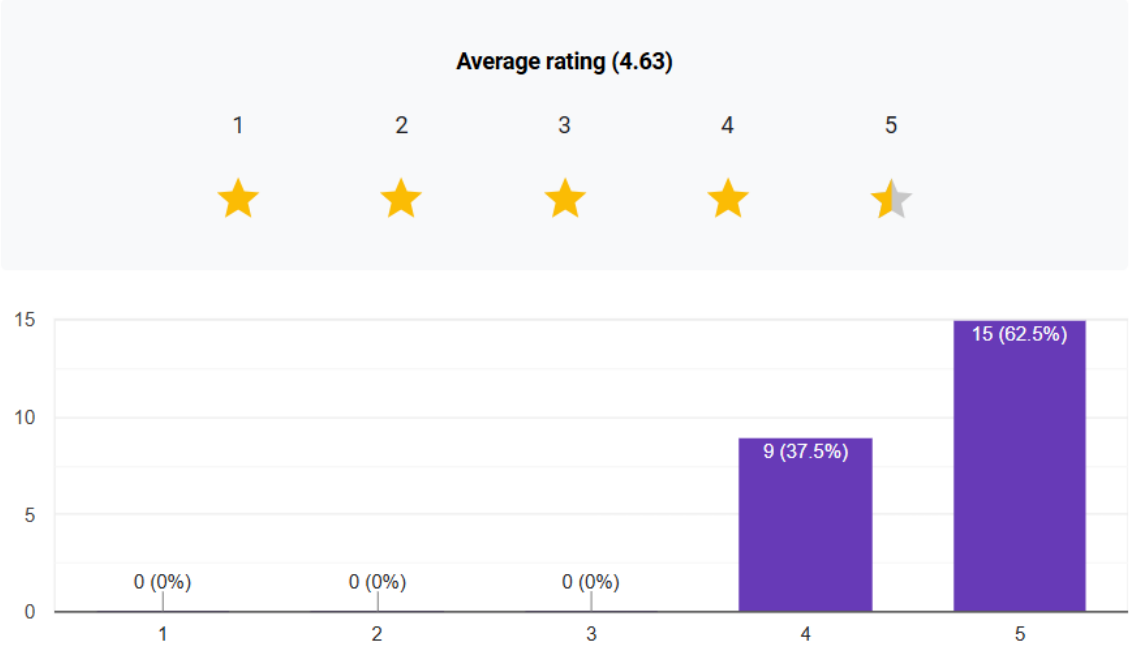
24 responses



How well was the topic and technical details explained to you?

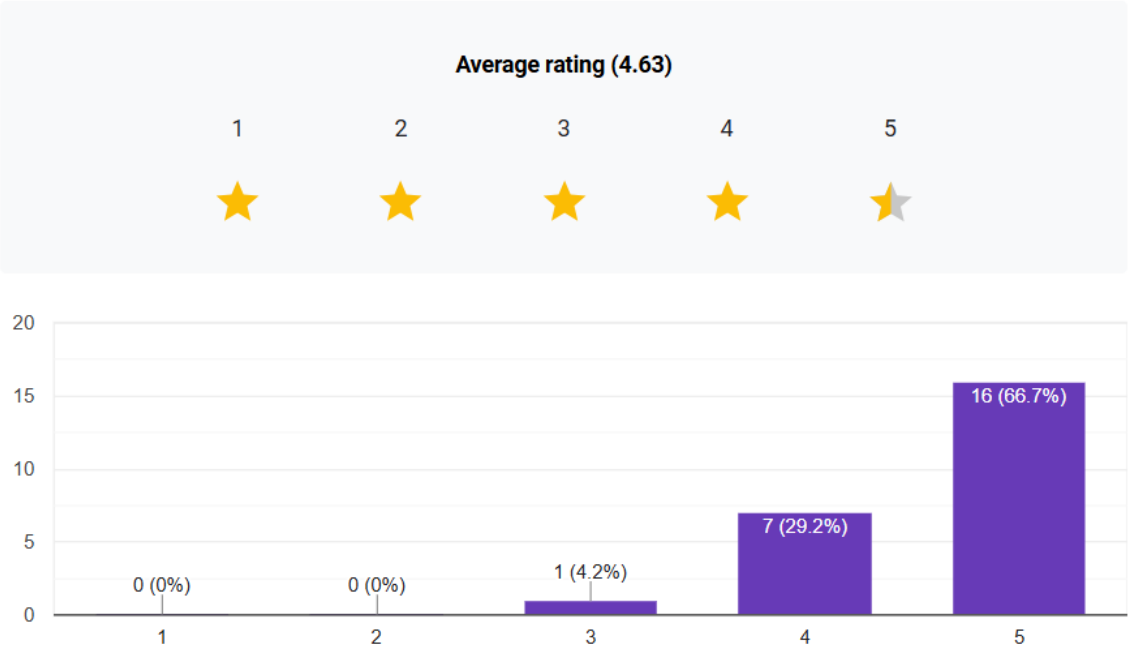
Copy chart

24 responses



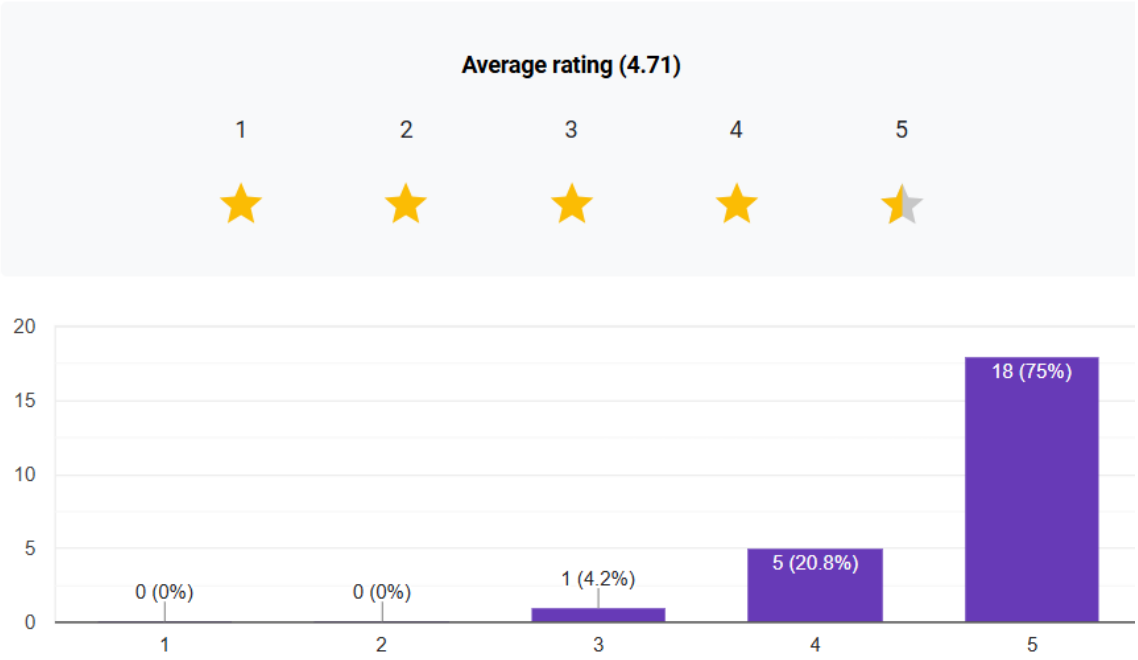
How well were your doubts and questions clarified to you?

24 responses



How well was the interaction with the instructor?

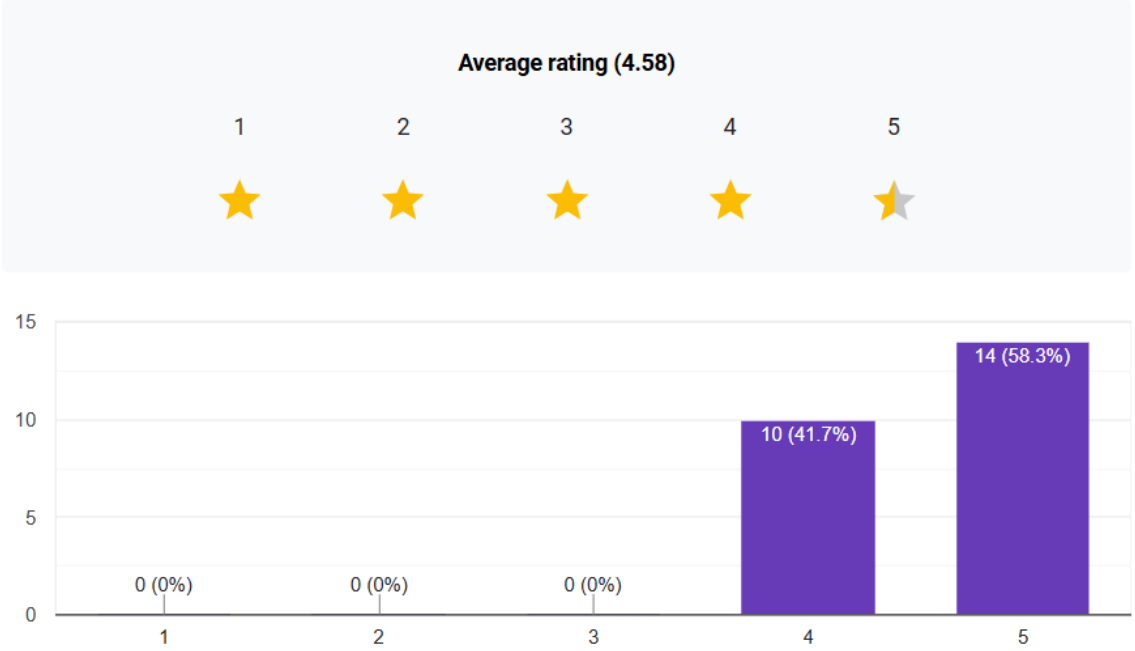
24 responses



Hands-on sessions

Copy chart

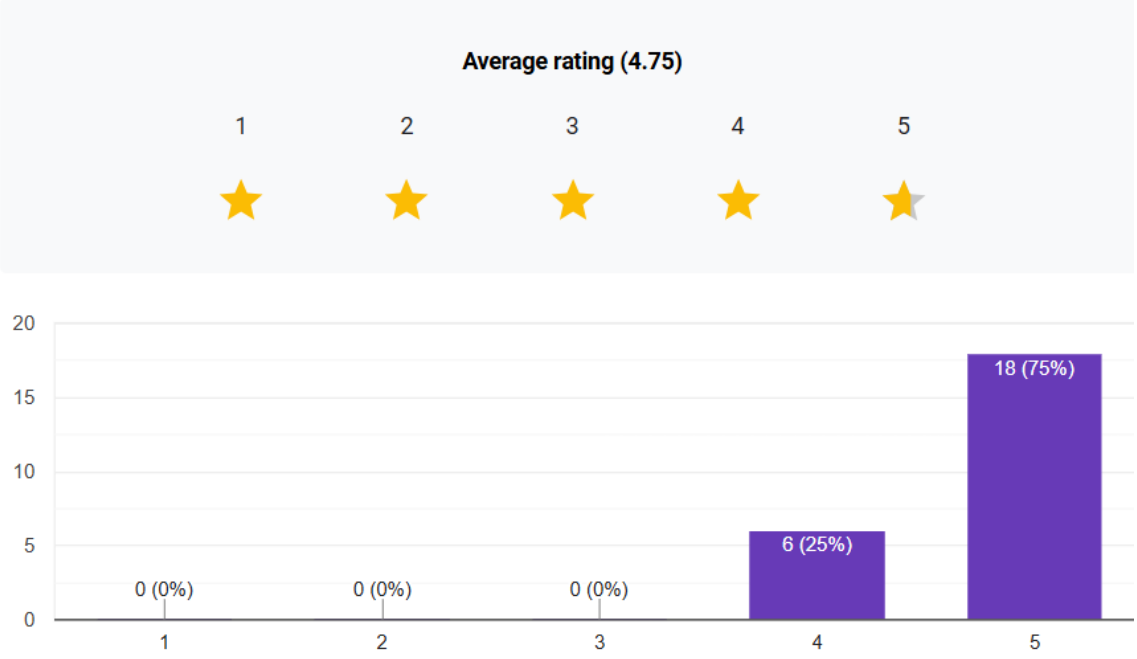
24 responses



How was your overall experience?

Copy chart

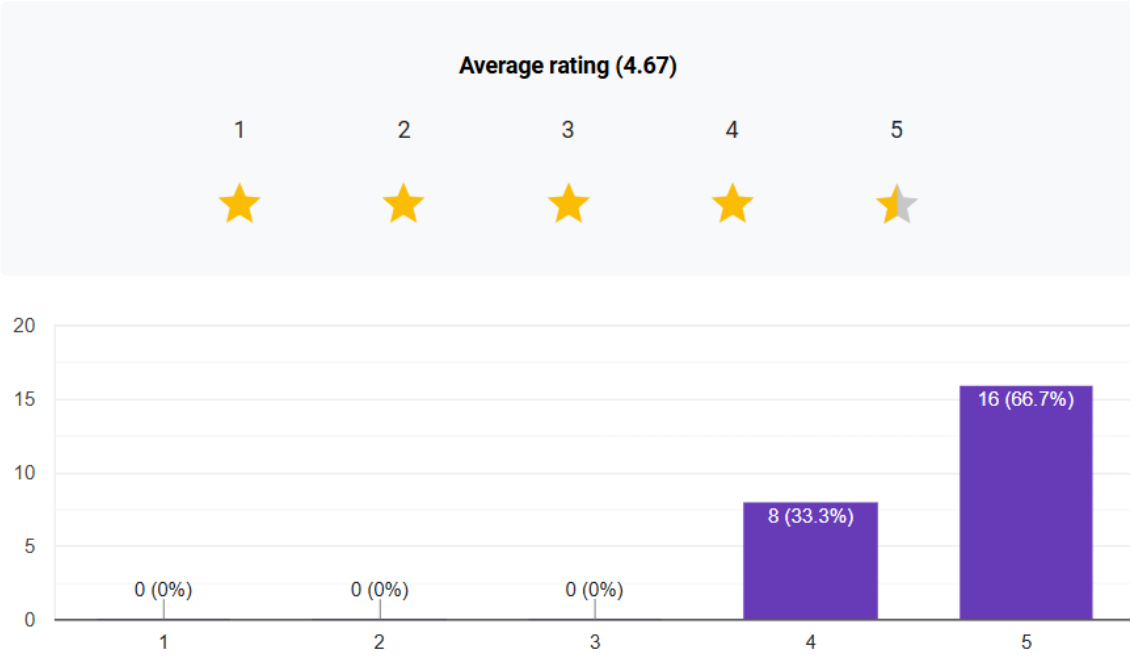
24 responses



How well was the topic and technical details explained to you?

Copy chart

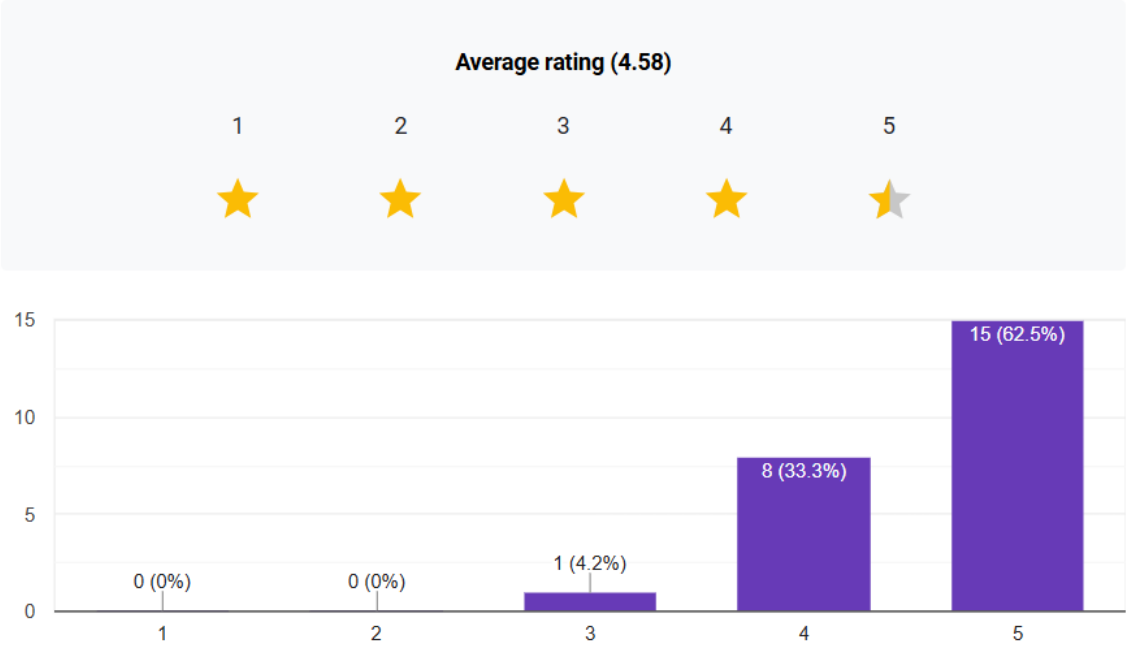
24 responses



How well were your doubts and questions clarified to you?

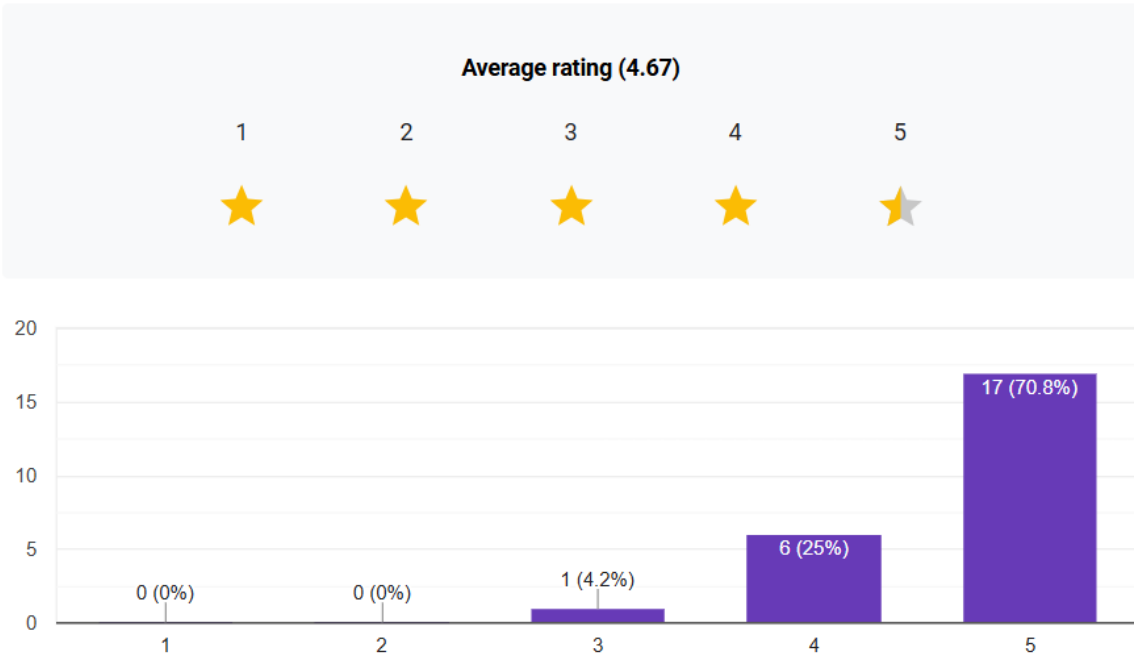
Copy chart

24 responses



How well was the interaction with the instructor?

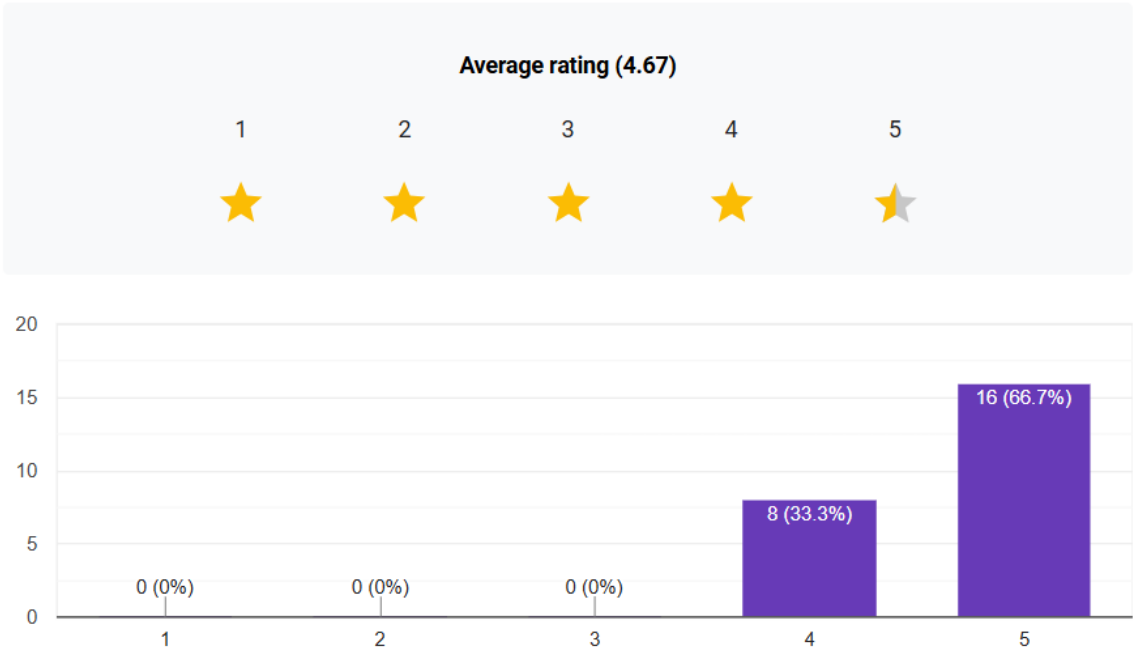
24 responses



Hands-on sessions

Copy chart

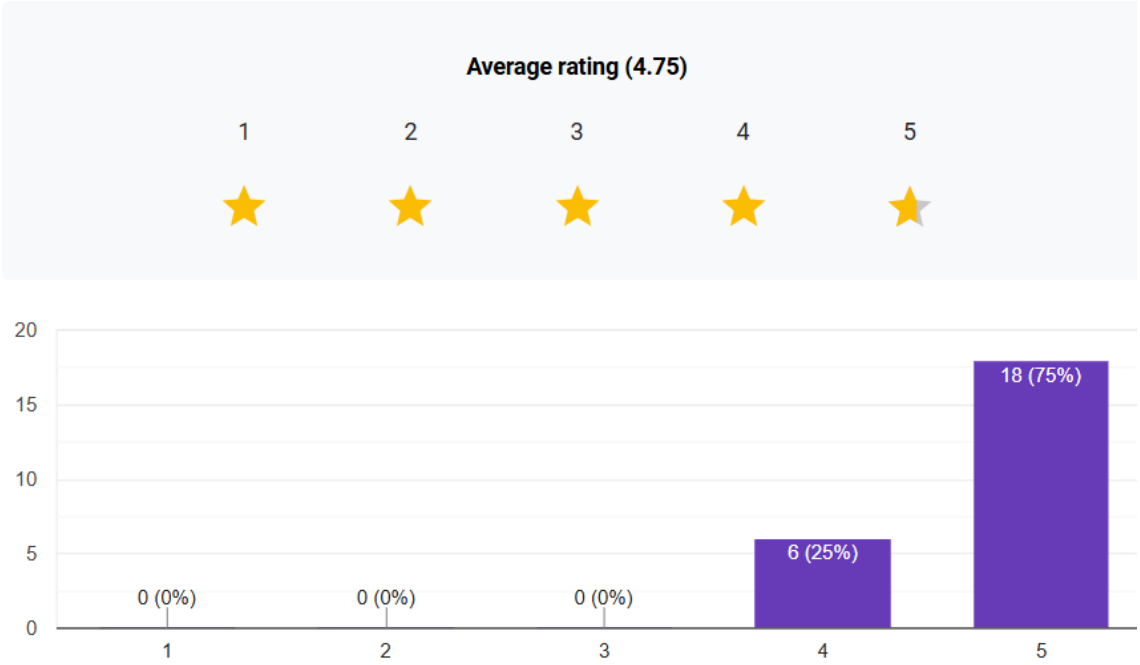
24 responses



How was your overall experience?

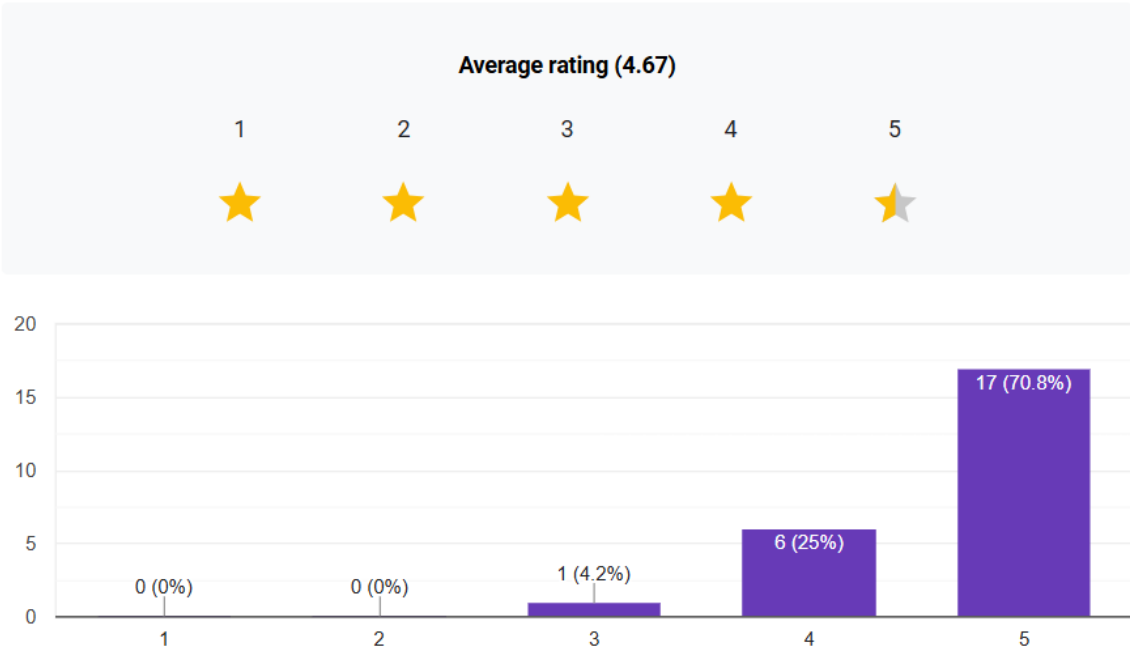
Copy chart

24 responses



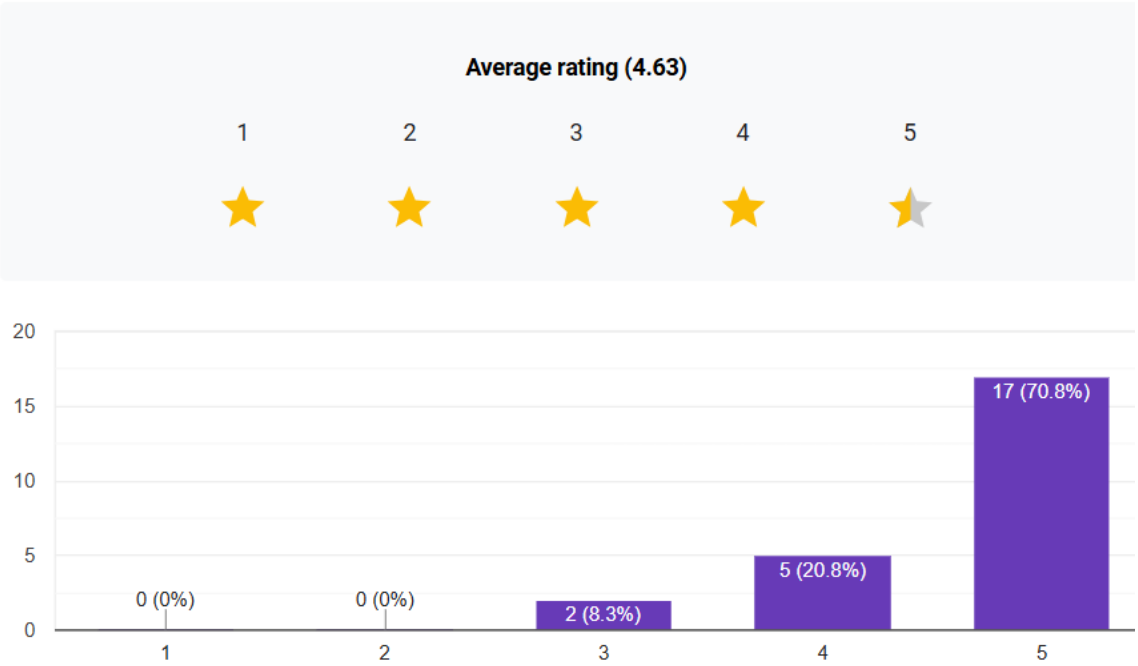
How well was the topic and technical details explained to you?

24 responses



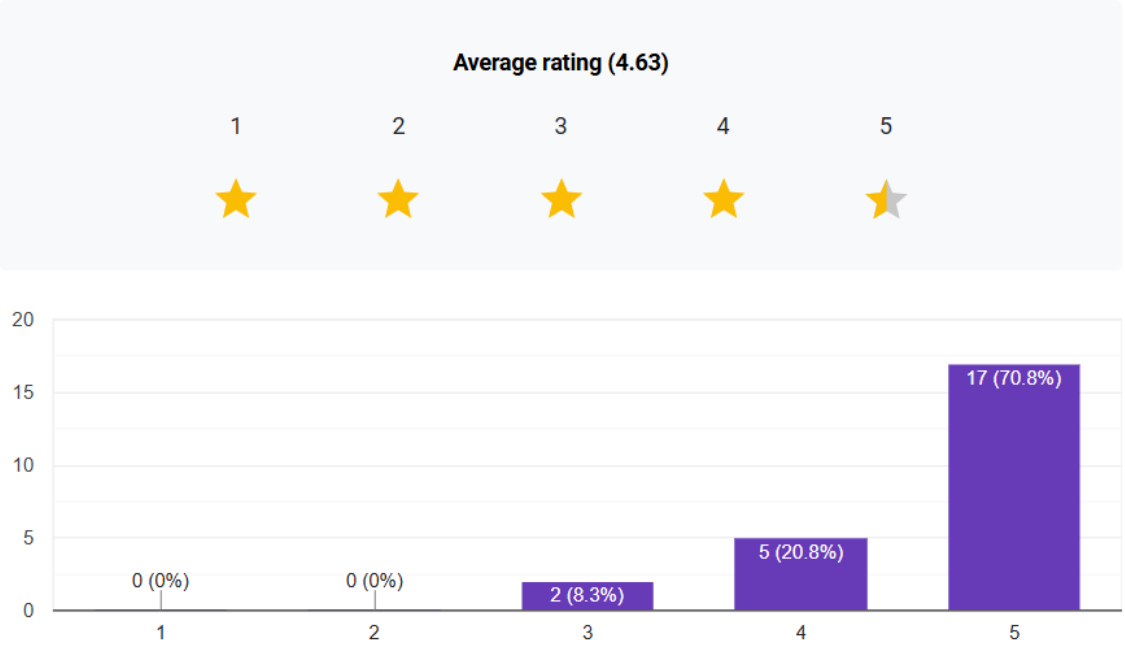
How well were your doubts and questions clarified to you?

24 responses



How well was the interaction with the instructor?

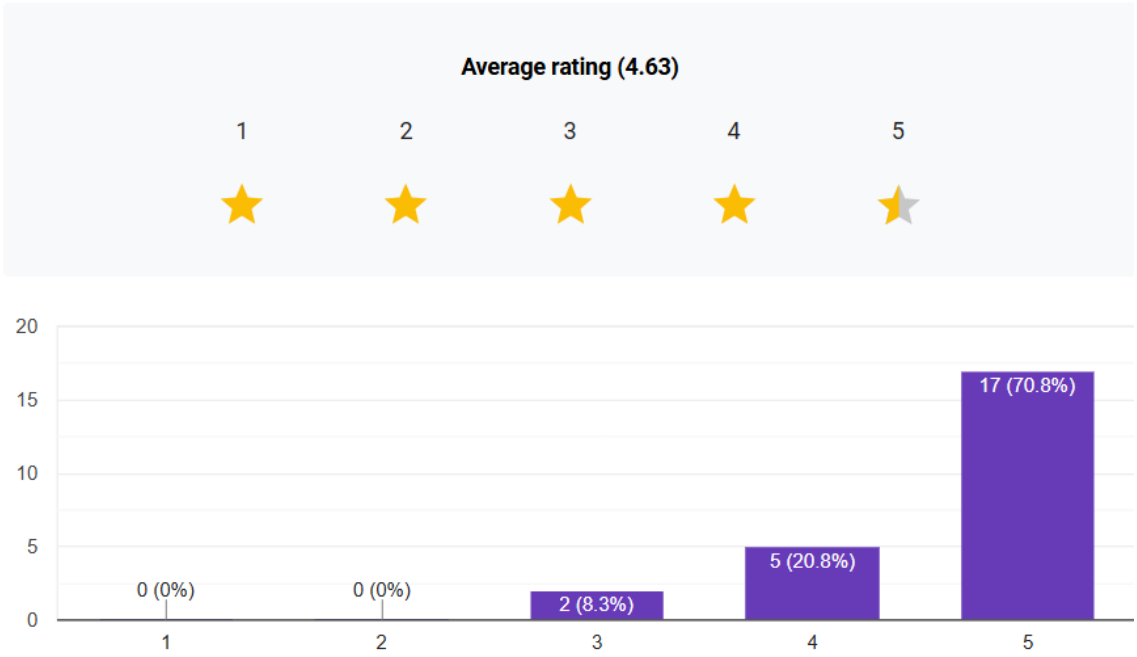
24 responses



Hands-on sessions

Copy chart

24 responses



How was your overall experience?

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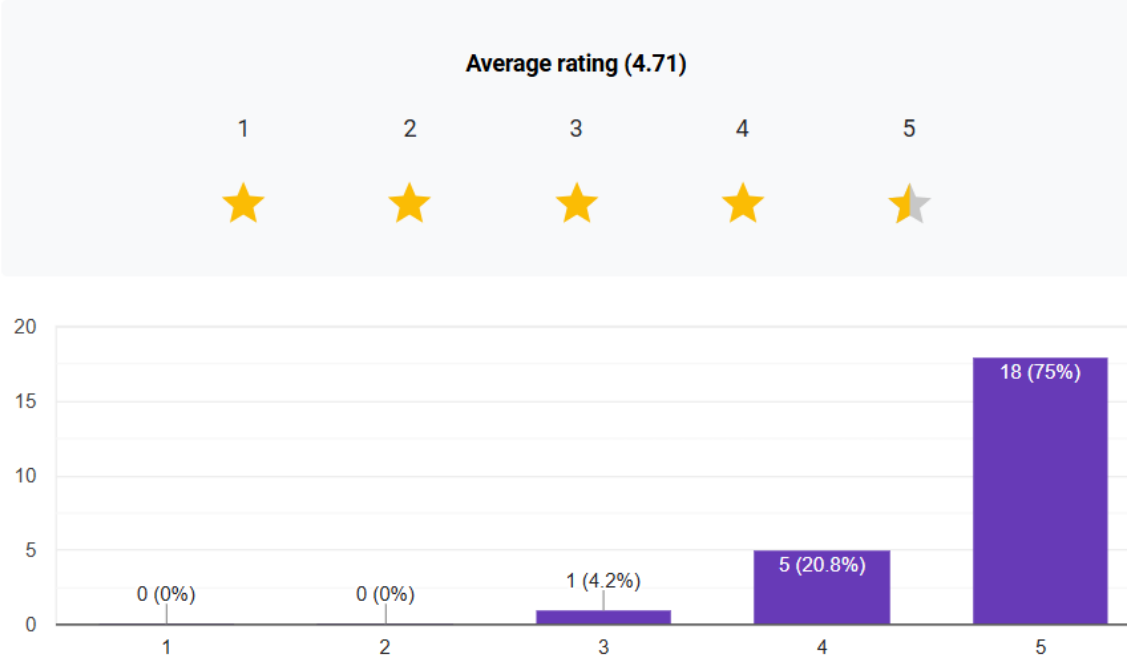
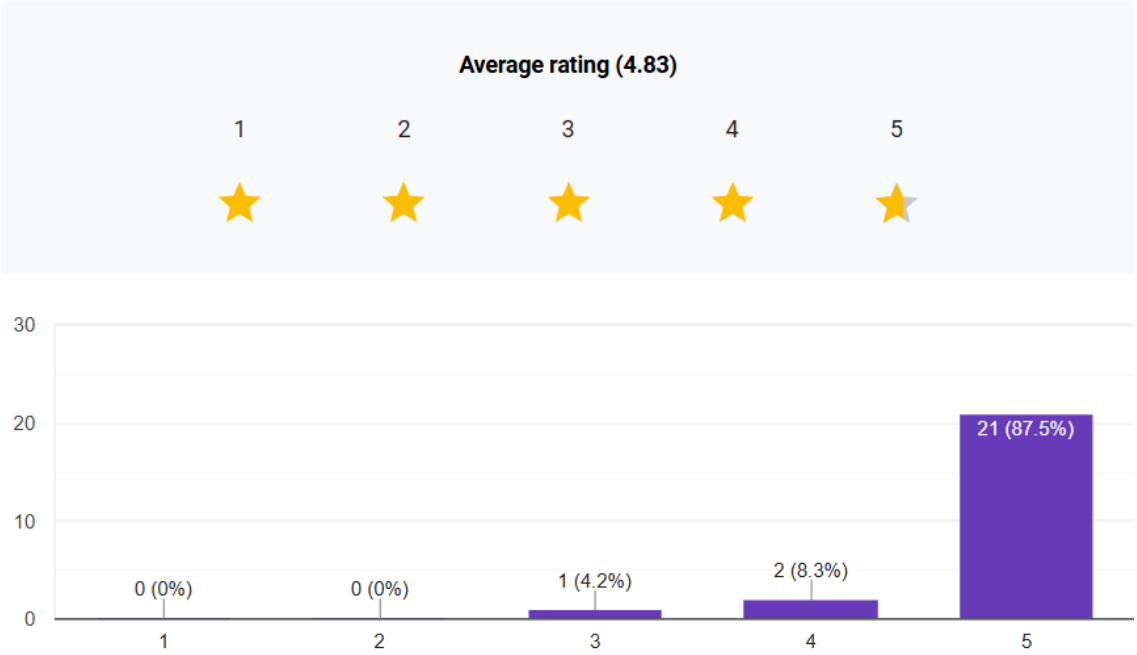
24 responses



How were the preparations served during breakfast, lunch and dinner?

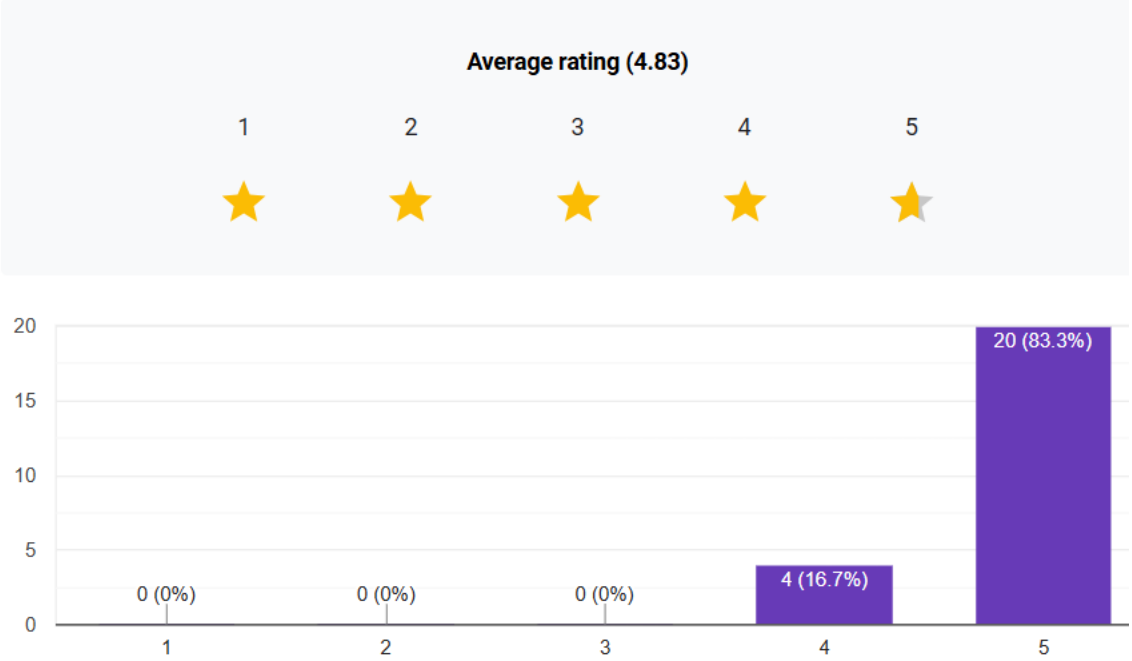
Copy chart

24 responses



How well was hygiene maintained in the eating area?

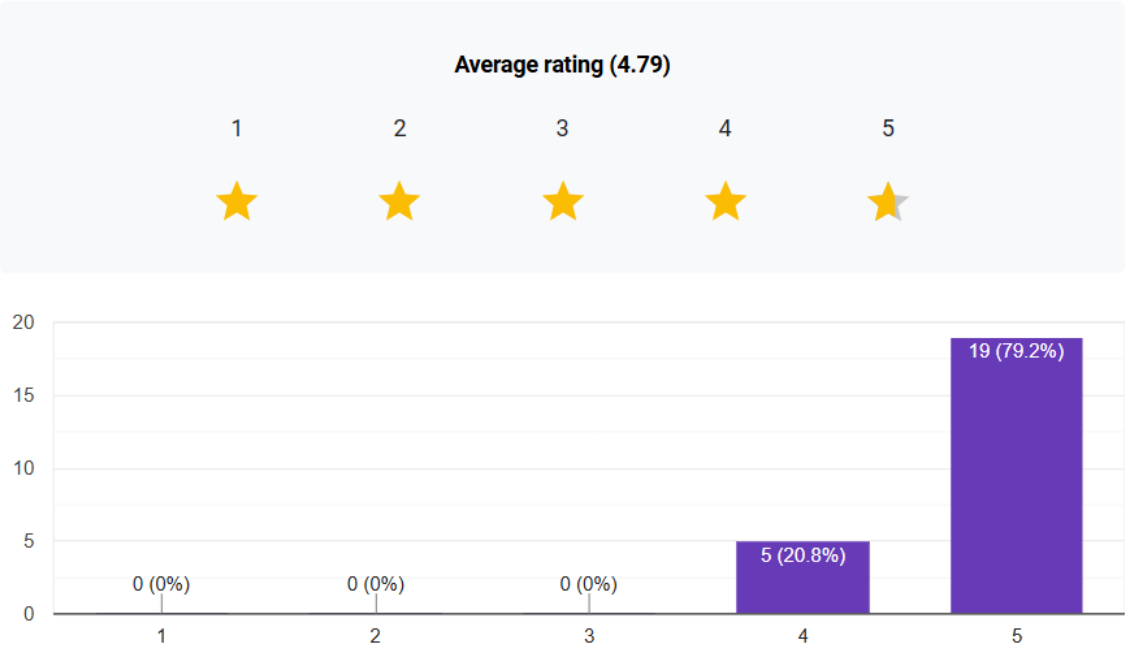
24 responses



How was the poster presentation session?

Copy chart

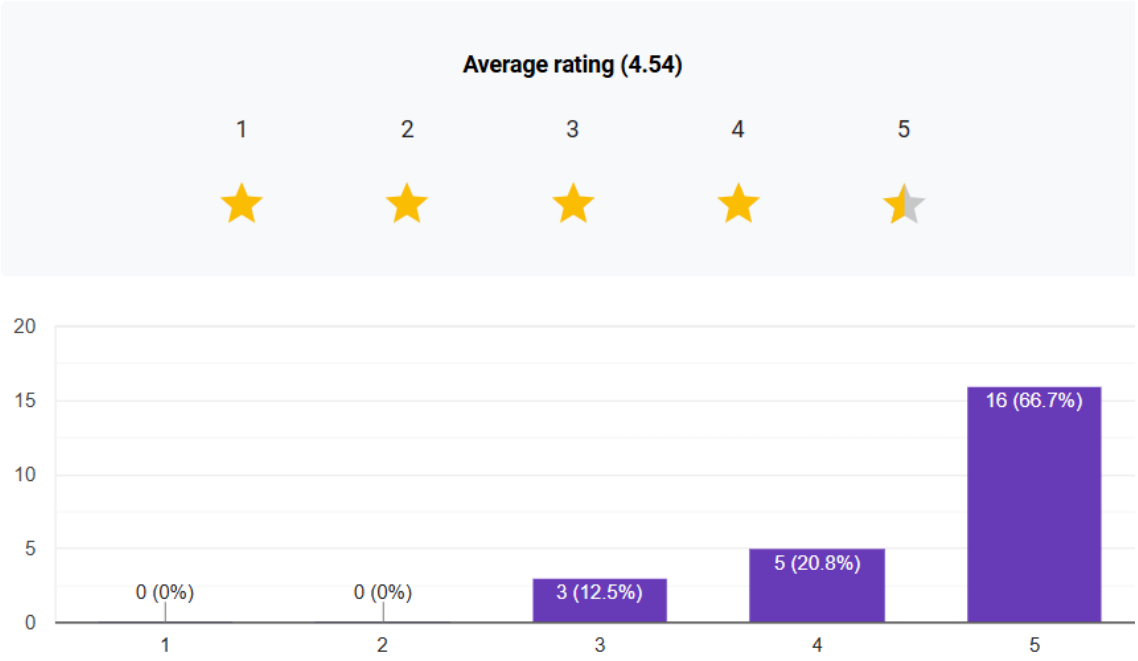
24 responses



How was the venue for the poster presentation?

Copy chart

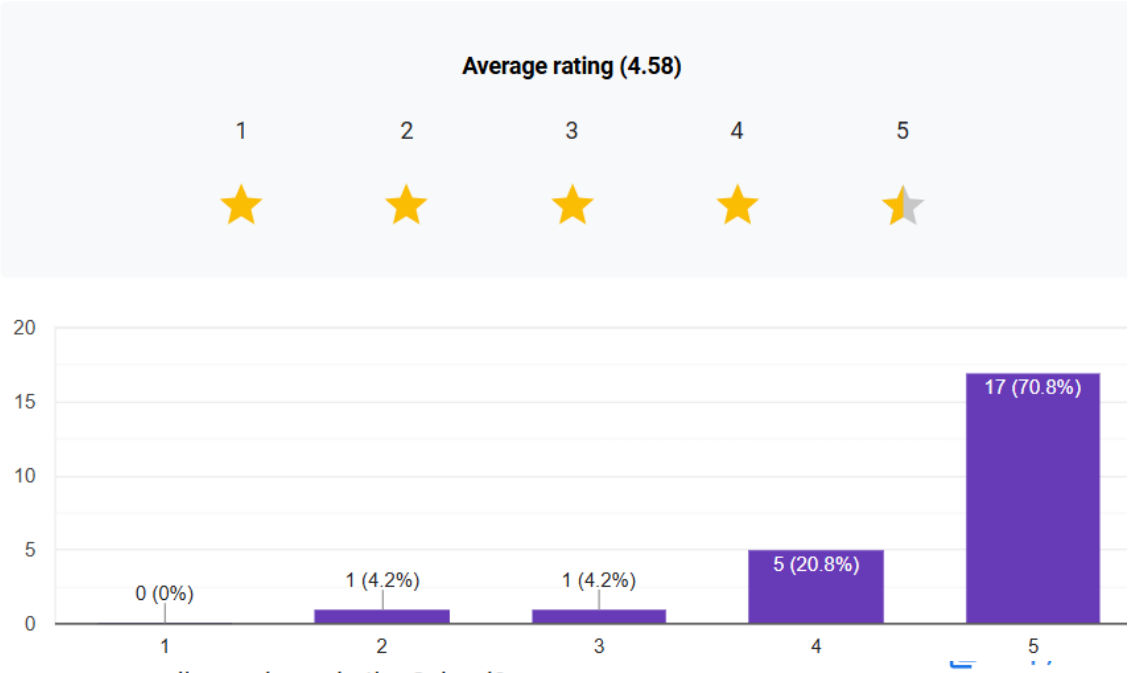
24 responses



How comfortable was your discussion with Judges?

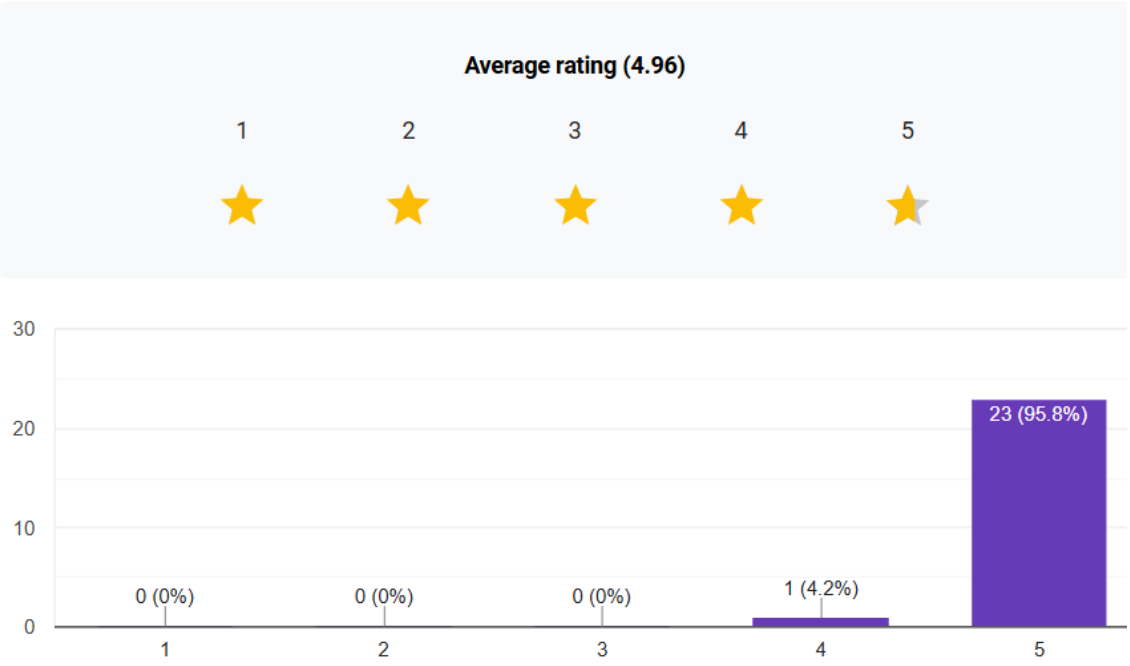
Copy chart

24 responses



How was your overall experience in the School?

24 responses



How was the interaction with the faculty?

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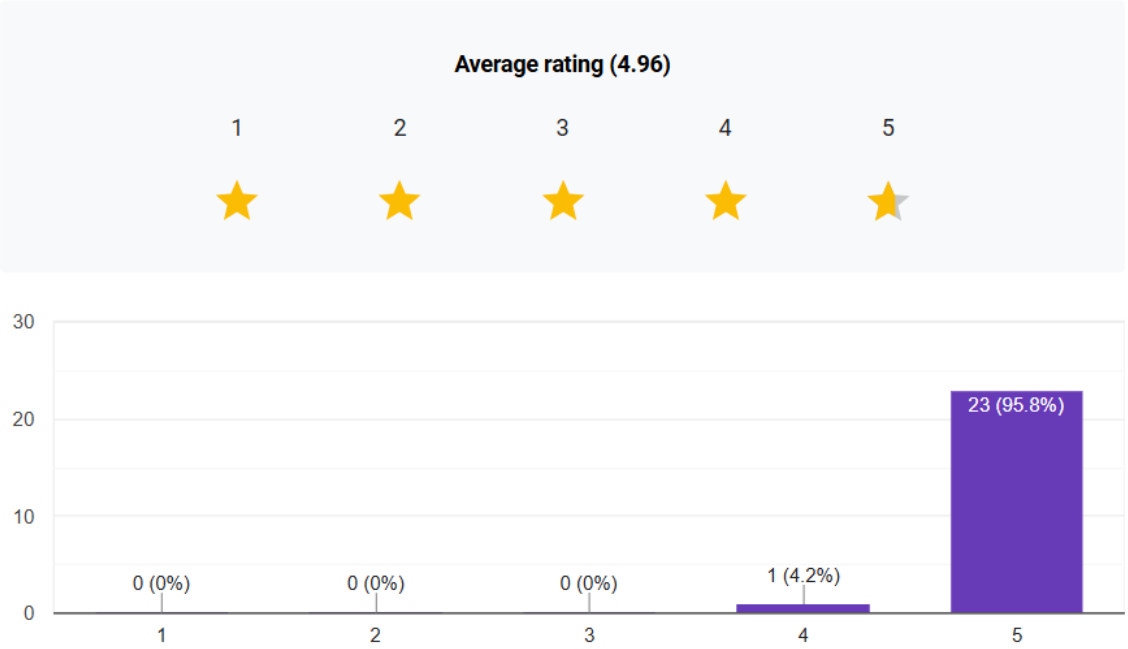
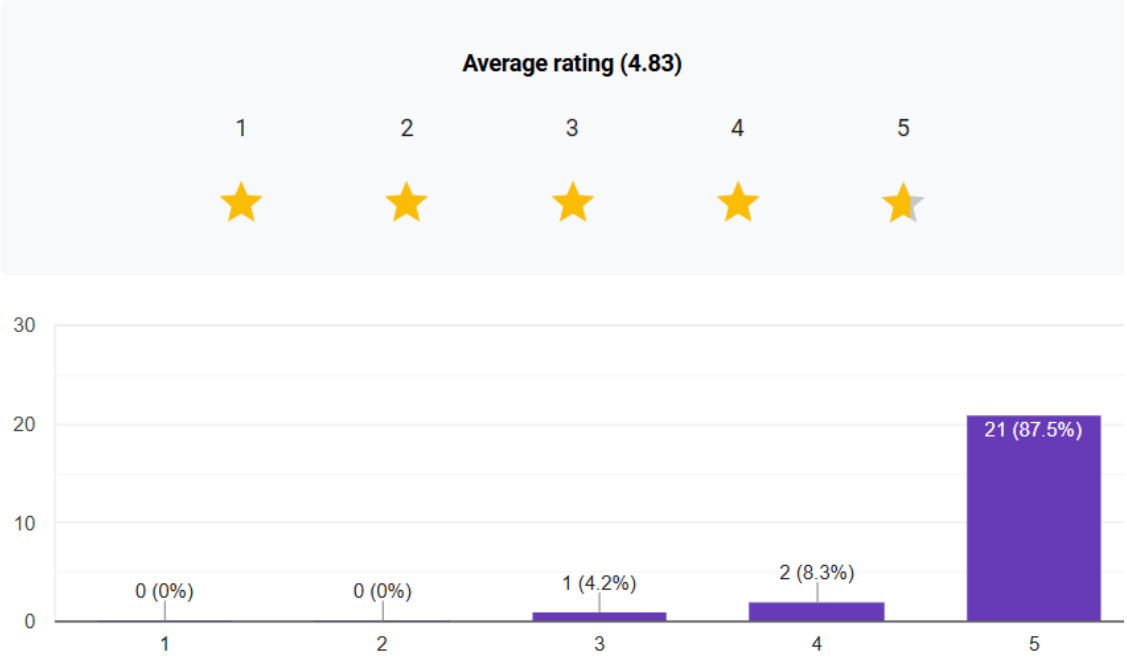
24 responses



How was the interaction with other fellow Scientists?

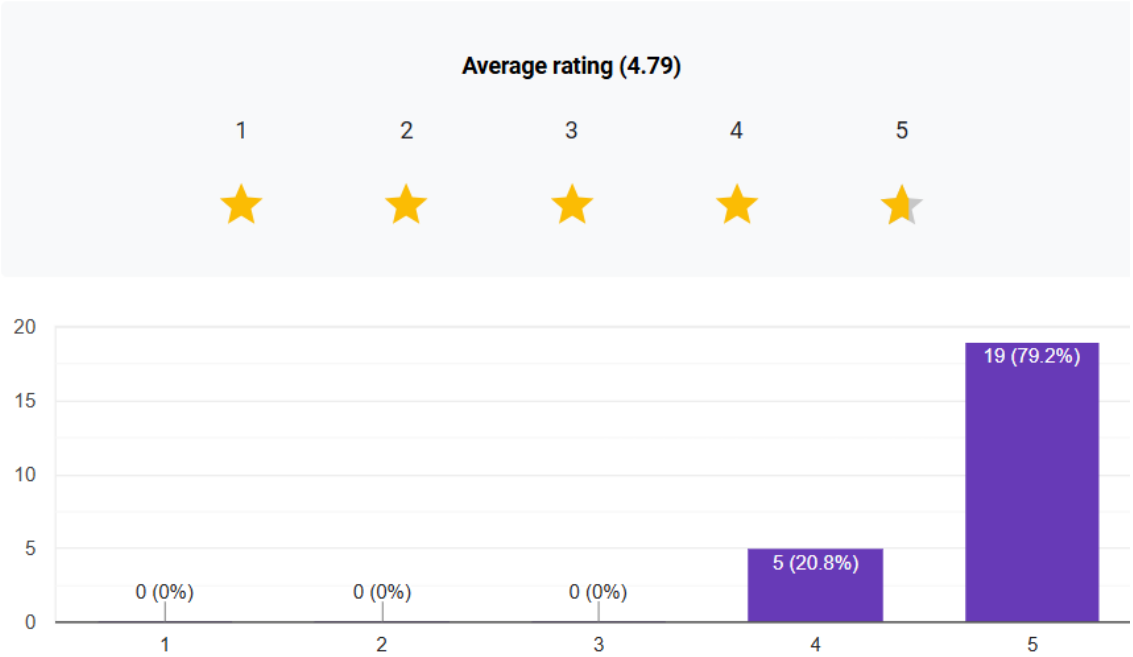
24 responses



How did this workshop improve your knowledge?

Copy chart

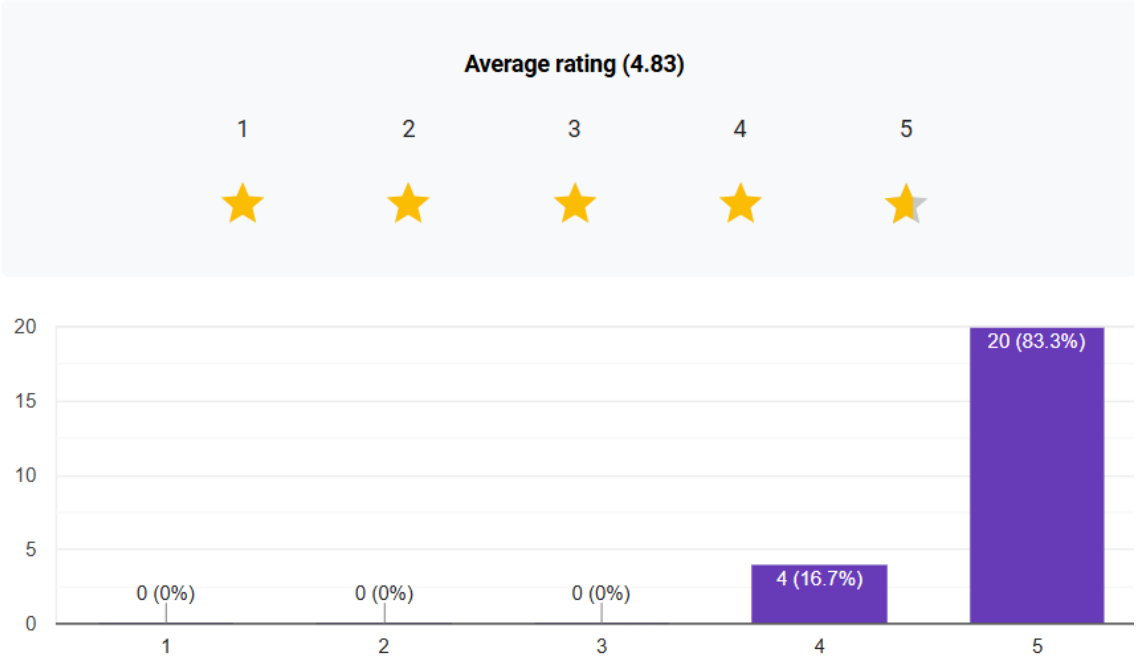
24 responses



How did this workshop help you in improving your research skills?

Copy chart

24 responses



How was the accommodation provided to you?

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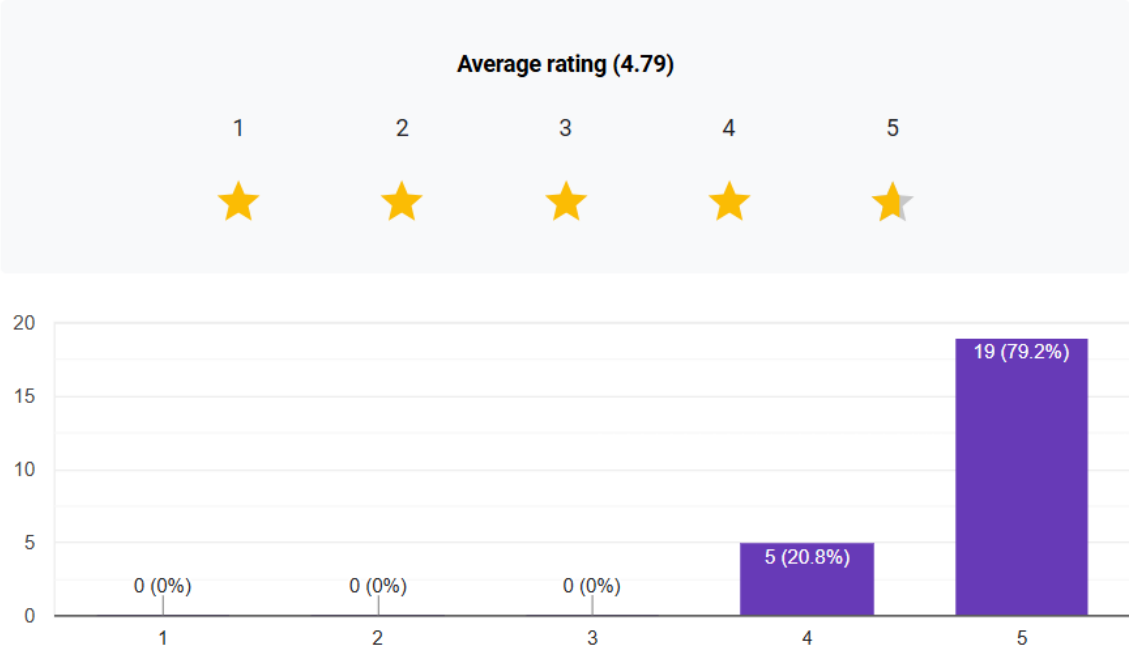
24 responses



Your Valuable Suggestions

If there is any area of improvements, please leave your valuable comments below.

9 responses

- Everything was impeccable
- Although sufficient time was allotted for the practical session, it was time-consuming. Therefore, it would be better to allocate more time for each section to ensure smooth conduct, possibly by reducing the number of lectures
- This was one of best school I attended. Very informative and clear . All credits to organising committee
- It was a great and informative school.
- Duration of hands on sessions could be increased.
- The training was excellent and very well organized, with every detail thoughtfully managed. The students were exceptionally friendly and supportive throughout. Although I felt unwell for a few days, they promptly provided medication and made all the necessary arrangements to ensure our comfort and well-being. It was a truly positive experience. One suggestion for future sessions would be to include more hands-on practical activities, which could enhance the overall learning experience even further.

NA
Overall experience is the best.
Overall very well planned and organized congratulations looking forward for such more hands on workshop and future collaborations