



# GOVERNMENT ZIRTIRI RESIDENTIAL SCIENCE COLLEGE

## ACTIVITY REPORT

(to be submitted at [activityreport@gzrsc.edu.in](mailto:activityreport@gzrsc.edu.in) within one week after the conduct of the activity)

### I. Activity Details:

1	Name of the Activity:	5 days State Level Faculty Development Programme (FDP)
2	Date and Time:	March 23-27, 2026; 10:15 am – 3:00pm
3	Venue:	Lalziki Seminar Hall, GZRSC
4	Resource Person with short bio-note:	<p><b>Dr. Hmingremhlua Sailo</b>, Assistant Professor, Pachhunga University College.</p> <p><b>Present Address:</b> C-1/17-A, Chawlhmun, Aizawl, Mizoram 796009</p> <p><b>Phone:</b> +91-8130158426</p> <p><b>Email Address:</b> <a href="mailto:hmingremhlua94@gmail.com">hmingremhlua94@gmail.com</a>, <a href="mailto:mzu116706@mzu.edu.in">mzu116706@mzu.edu.in</a></p> <ul style="list-style-type: none"><li>• <b>13 publications</b> in peer-reviewed journals (highest IF: 6.0; average IF: 3.10; cumulative IF: 40.34)</li><li>• <b>Research expertise</b> in Heavy Metal Toxicity in Rice, <i>In Silico</i> Drug Discovery, and Ethnobotany</li><li>• <b>5 patent</b> publications</li><li>• <b>Reviewing Editor/Reviewer</b> for Springer Nature, Hindawi, Wiley, and Nature journals</li><li>• <b>Qualified CSIR-NET (JRF), GATE, and SLET (Life Sciences)</b> qualified, with over 10 years of experience in teaching and mentoring at the higher education level</li></ul>
5	Number of Participants: i. Number of Students: ii. Number of Teachers:	ii. Number of Teachers: 63
6	Target Group:	Research scholars and College teachers
7	Organisers:	Department of Botany, Chemistry and Biochemistry
8	Sponsoring Agency:	College
9	Whether Institutional/ State/ Regional/ National/ International Level?	State Level
10	Reported by	Dr. PC. Lalrinfela, Secretary, FDP

### II. Activity Summary:

A five-day State-Level Faculty Development Programme (FDP) on “**In-Silico Drug Discovery from Ethnomedicinal Plants of Mizoram: Molecular Docking and Computational**”

**Pharmacology”** was held from March 23–27, 2026 at Lalziki Seminar Hall, Government Zirtiri Residential Science College (GZRSC). It was jointly organized by the Department of Botany, Chemistry, and Biochemistry. The programme was led by Dr. Hmingremhlua Sailo, Assistant Professor, Pachhunga University College, with 63 participants from various institutions across Mizoram.

The inaugural session was chaired by Lalnunthara, Associate Professor, GZRSC, and featured a keynote address by Dr. Zirliangnura, Principal, who emphasized the importance of in-silico approaches and ethnomedicinal plants in modern drug discovery. The FDP included lectures on ligand–protein interactions, molecular docking, and post-docking analysis, along with hands-on training. Participants learned ligand selection, protein preparation, grid setting, and docking simulations, successfully completing computational studies. Overall, the programme was informative and enhanced both theoretical understanding and practical skills in in-silico drug discovery.

### III. Activity Picture:



Fig: Inaugural of the FDP programme on 23<sup>rd</sup> March, 2026



Fig: participants with extensive hands-on training during the programme and comment on the programme.

Five Days State-level Faculty Development PROGRAMME ON "In-Silico Drug Discovery from Ethnomedicinal Plants of Mizoram: Molecular Docking and Computational Pharmacology"	
Date :	March 23 – 27, 2026
Place :	Lalziki Seminar Hall, GZRSC
<b>Day 1: Introduction and Program</b>	
Morning Session	
Chairman :	Lalnunthara, Asst. Prof, GZRSC
10:00 am - 10:15 am :	Arrival/Tea
10:15 am - 10:25 am :	Inaugural/Key note address of FDP by Dr. Zirliangnura, Principal, GZRSC
Technical session	
10:25 am - 11:20 am :	Lecture on introduction to in-silico drug discovery
11:20 am - 12:30 pm :	Installation of required software tools
12:30 pm - 1:00 pm :	Lunch
Afternoon Session	
1:00 am - 12:30 pm :	Lecture on introduction to ligand-protein interaction concepts
1:00 pm - 3:30 pm :	Technical session/hands on training on ligand preparation (compound retrieval and structure preparation)
<b>Day 2: Molecular Docking</b>	
Morning Session	
10:00 am - 10:15 am :	Arrival/Tea
10:15 am - 12:30 pm :	Technical session/hands on training on analysis of docking results interpretation of binding affinity and docking scores identifying key amino acid interactions
Afternoon Session	
1:00 pm - 1:40 pm :	Lecture on Principles ligand-protein interaction and grid system
1:40 pm - 3:00 pm :	Technical session/hands on training on repetition of ligand preparation from a given compound Key words for finding target protein for ligand Protein preparation (protein structure retrieval and cleaning) Performing molecular docking simulations
12:30 pm - 1:00 pm :	Lunch
Afternoon Session	
1:00 pm - 1:40 pm :	Lecture on Principles of molecular docking
1:40 pm - 3:00 pm :	Technical session/hands on training on Performing molecular docking simulations
<b>Day 3: Post-Docking Analysis</b>	
Morning Session	
10:00 am - 10:15 am :	Arrival/Tea
10:15 am - 12:30 pm :	Technical session/hands on training on Post-docking analysis and result interpretation Discussion of docking reliability and limitations
12:30 pm - 1:00 pm :	Lunch
Afternoon Session	
1:00 pm-3:00 pm :	continuation of technical session Post-docking analysis and result interpretation Discussion of docking reliability and limitations Preparing results for research reports or publications
<b>Day 4: Final Docking Analysis</b>	
Morning Session	
10:00 am - 10:15 am :	Arrival/Tea
10:15 am - 11:30 am :	Lecture on effective research paper preparation by incorporating docking results
11:00 am-12:30pm :	Q & A
12:30 pm - 1:00 pm :	Lunch
Afternoon Session & Closing function	
Chairman :	Dr. Lalnunthara, Asst. Prof., GZRSC
Vote of Thanks :	Mary Lalnunthara, Asst. Prof., GZRSC
Certificate Distribution :	Dr. Zirliangnura, Principal, GZRSC
Photo Session	

Fig: Details of FDP Programme