



## PROFILE

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Delhi, Delhi - 110067

## OBJECTIVE

To use my knowledge  
of educational  
technology and  
interactive learning  
methods to impart  
mathematical skills  
and aptitude to young  
students.

# DR S.T. KHAIMINTHANG VAIPHEI

## ➤ EDUCATION

10th (Matriculation) (2010)  
E.M. Standard High School. K. Thiamdawi  
**BOARD OF SECONDARY EDUCATION MANIPUR**

10+2 (Higher Secondary) (2010 - 2012)  
Rengkai Hr. Secondary School, Churachandpur  
**COUNCIL OF HIGHER SECONDARY EDUCATION MANIPUR**

B.Sc. (Maths) (2012 - 2015)  
D.M. College of Science, Imphal  
**MANIPUR UNIVERSITY (CENTRAL UNIVERSITY)**

M.Sc. (Mathematics) (2015 - 2017)  
Department of Mathematics  
**MANIPUR UNIVERSITY, CANCHIPUR**

Ph.D. (Mathematics) (2017-2022)  
Department of Mathematics  
**MANIPUR UNIVERSITY, CANCHIPUR**

## ➤ PH.D. THESIS TITLE

A study of black holes in non-stationary de Sitter universes  
with variable  $\Lambda(u)$

## ➤ OTHER EXAMINATION PASSED

CSIR-UGC NET (DECEMBER 2016)

## ➤ SPECIALIZATION

General Relativity, Black Hole Physics, Radiating Black Holes

## ➤ TEACHING EXPERIENCES

Rayburn College, Manipur (2022 - 2023)

Accelerate - A Coaching Institute for Banking, SSC (2017 - 2019)

## ➤ NATIONAL FELLOWSHIP

NATIONAL FELLOWSHIP FOR ST STUDENTS  
(Awardee No.: 201718-NFST-MAN- 02265)

## ➤ COMPUTER SKILLS

LATEX	MS OFFICE	GEOGEBRA
MATLAB	R	

## ➤ ACHIEVEMENTS

1. **“Best Student Awardee”** in E.M. Standard High School, K. Thiamdawi in 2002.
2. **“Third Place”** in Quiz Competition (Zonal Level) organized by ZEO (Zonal Education Officer), Churachandpur District under Department of Education, Govt. of Manipur in 2011.
3. **“Second Place”** in Science Exhibition Competition (Zonal Level) organized by ZEO (Zonal Education Officer), Churachandpur District under Department of Education, Govt. of Manipur in 2012.
4. **“Second Place”** in Quiz Competition (Zonal Level) organized by ZEO (Zonal Education Officer), Churachandpur District under Department of Education, Govt. of Manipur in 2012.
5. **“Third Place”** in Mathematics Competition (State Level) organized by Department of Education, Govt. of Manipur in 2011.
6. **“17th Place”** in Science Exhibition Competition (State Level) organized by Department of Education, Govt. of Manipur in 2012.

## ➤ WORKSHOPS/ SEMINARS/CONFERENCES ATTENDED

1. Presented a paper entitled **“A Discussion of Einstein’s Field Equations with Variable  $\Lambda(u)$ ”** in the “National Conference on Differential Geometry and General Relativity (NCDGGR-2017)” held on 19th – 23th November, 2017, at Department of Mathematics, Sardar Patel University, Gujarat.
2. Five Day Workshop on **“Mathematica, MATLAB and Data Analytical Methods”** held on 26th – 30th December 2017, at Department of Mathematics, NIT Manipur. (Participation)
3. Presented a paper entitled **“Energy momentum tensors of different gravitational fields”** in the “The 105th Indian Science Congress”, held on 16th – 20th March 2018, at Manipur University, Imphal.
4. Attendend a **“Workshop on Gravitation and Gravitational Waves”** held on 7th –13th October 2018, at Department of Mathematics, Assam University, Silchar. (Participation)
5. Presented a paper entitled **“Energy momentum tensors of different gravitational fields”** in the “International conference on Gravitation, Cosmology and Mathematical Physics (ICGCAMP-19)” held on 4th – 7th April 2019, at Department of Mathematics and Physics, GLA University, Mathura.
6. Attended a **“Two Day National Workshop on Mathematica”** held on 2nd – 3rd August 2019, at Department of Physics, Manipur University, Canchipur, Imphal. (Participation)
7. Attended a **“Six-Day Teacher’s Enrichment Workshop (TEW)”** held on 1st – 6th October, 2019 sponsored by National Centre for Mathematics, a joint Centre of IIT-Bombay and TIFR, Mumbai and Manipur University, at Department of Mathematics, Manipur University. (Participation)
8. Presented a paper entitled **“Effects of Hawking radiation on Vaidya-Bonnor-monopole-de Sitter black holes”** in the 4th National Colloquium on “Advances in Mathematical Sciences” held at D.M. College of Science, Imphal, during 28th – 29th February, 2020, jointly organized by Department of Mathematics, D. M. College of Science and D.M. College of Arts, Imphal (Dhanamanjuri University, Imphal).
9. Participated (Online) **“9 Days Hands-On Start to MATHEMATICA”** during 21st April – 29th April, 2022 conducted by SIAS (Spark Institute of Advance Sciences) Research Forum.
10. Participated **“Three Days National Conference on International Pi Day”** from 12th – 14th March, 2022 sponsored by Manipur University and organized by Department of Mathematics, Manipur University, Canchipur, Manipur.

## ➤ PAPER PUBLISHED

1. Vaidya-Bonnor black hole in monopole-de Sitter space with variable  $\Lambda(u)$ , (2021) Gen. Relativ. Gravit., 53, 85, 1-29 (jointly with Ng. Ibohal and M.R. Singh) Impact Factor: 2.8
2. Rotating Vaidya-Bonnor black hole in monopole-de Sitter background with variable  $\Lambda(u)$ , (2023) Gen. Relativ. Gravit., 54, 34, 23-45 (jointly with Ng. Ibohal) Impact Factor: 2.84

## ➤ MEMBER OF RESEARCH ASSOCIATION

1. Member of Manipur Mathematical Society
2. Member of Tensor Society, India
3. Member of Indian Association for General Relativity and Gravitation (IAGRG), Pune

## ➤ COMMUNITY OUTREACH FACULTY INCHARGE

1. International Association for Human Values (IAHV)

## ➤ STUDENT ACTIVITIES

1. President - **Tribal Students' Union**, D.M. College of Science, Imphal (2014 -2015)

## ➤ SIX MONTHS GRADUATE SCHOOL FOR PHD

IUCAA-NCRA Graduate school (17th October 2018 - 31st March 2019)  
Overall Grade: **B**