



Newsletter

नेपाल गणित समाज

NEPAL MATHEMATICAL SOCIETY

www.nms.org.np

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Issue No. 21, May 2025

Editorial

It is our immense pleasure to share that Nepal Mathematical Society (NMS) has published its 21st issue of the Newsletter on the occasion of its 47th anniversary. This issue highlights the major activities of NMS, and its valued life members from the first date of Baishakh, 2081 (April 13, 2024) to the end of Chaitra, 2081 (April 13, 2025).

NMS has been actively involved in mathematics-related various academic activities with the main objectives of enhancing various academic aspects of our valued life members, and in the popularization of mathematics in Nepalese society. This Newsletter incorporates our past activities such as Training of Trainers (ToT), and Training of Teachers in different provinces under the S2S Project of NMS, various talk series in which NMS has been involved, academic activities and publications of NMS life members. We are thankful to you all who have supported us academically, financially, and in many other ways, and we also hope the same in the years to come.

Editorial Board

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Mr. Sushil Khadka
Mr. Biseswar Prashad Bhatt

Message from the President

It is a great honor and tremendous pleasure for me to congratulate all the valued mathematicians, commemorating the 47th anniversary of the Nepal Mathematical Society (NMS), and launching its newsletter of Issue No. 21, May 2025 on this occasion.

The present NMS EC committee would like to express our sincere gratitude and special thanks to all the esteemed life members of NMS for their continuous encouragement, assistance, and support in all programs and activities conducted by NMS. On behalf of NMS and its executive committee, I would like to acknowledge and appreciate the enthusiasm, dedication, and contribution paid by the past executive committee and subcommittee members, all the valued life members, and all other contributors for their valuable time and for making NMS more dynamic and vibrant among the Nepalese mathematical community by conducting various national and international activities in teaching, learning, and research in Mathematics and Mathematics education. NMS has completed its 46-year journey and currently, has more than 1200 life members and honorary members.

Three phases of Training of Trainers and Training of Teachers at 6 provinces have already been successfully conducted under S2S project supported by Nick Simons Foundation, USA. NMS jointly organized the Second International Conference on Mathematics and Applications (ICMA-2024) in Kathmandu, Nepal, from December 13 to December 15, 2024 with the Central Department of Mathematics, Tribhuvan University (TU) and Department of Mathematics, School of Science, Kathmandu University (KU) in collaboration with Nepal Sanskrit University, South Asian University, Andra Pradesh and Telanga Society for Mathematical Sciences, and East China University of Technology. We are continuously conducting the NMS-ANMA Talk Series and CDM-NMS Talk Series and other research/ general talks of Nepalese and internationally renowned mathematicians.

NMS has published Volume 7, Issues 1 and 2 of the *Journal of Nepal Mathematical Society* (JNMS). The EC committee acknowledges and heartily thanks all the authors, reviewers, and editorial board members for their valuable time and support.

NMS and its Province Committees conducted the *Mathematics in the Street* in eighteen places to popularize mathematics among the general public through mathematical puzzles, and fun games. Many mathematics teachers and students from schools, colleges, and universities volunteered for the program.

NMS is planning to extend the Society To Society program into the district and the municipality levels and a launch Talk To Students (TTS) program, which works in the field of notional area of mathematics with the students of basic level to university level, with the hope of meaningful collaboration with concerned institutions and foundations. Furthermore, we express our clear interest to support curriculum enhancement from syllabi design to evaluation system in school to university level, as we feel proud of our members' knowledge, skill and experience.

NMS also invites relevant stakeholders such as the policy makers, local and central government authorities, education offices at municipalities, provinces, and the central level, for effective implementation of the S2S and the proposed TTS programs to ensure the effectiveness of the outcomes in the educational institutions.

Finally, on behalf of NMS, I heartily acknowledge and offer special thanks to you all who have supported and well-wished our activities and given us your valuable ideas, suggestions, and feedback.

Sincerely yours
Dr. Shree Ram Khadka
President, NMS

46th Anniversary

Nepal Mathematical Society (NMS) celebrated its 46th Anniversary at the Central Department of Mathematics (CDM), Tribhuvan University (TU), Kirtipur on 5 Jeshtha



2081 (May 18, 2024). On the occasion, the following awards were distributed.

Dr. Shankar Raj Pant Research Award

Dr. Hem Raj Pandey received this award for the publication "Vaccination effect on the dynamics of dengue disease transmission models in Nepal: A fractional derivative approach".

NMS PhD Fellowship

This fellowship was awarded to the following.

1. Anup Tuladhar
2. Bishwa Raj Adhikari
3. Ganesh B. Basnet
4. Jagat Krishna Pokharel
5. Madav Prasad Poudel
6. Maheshwar Pokharel
7. Pushpa Nidhi Gautam
8. Ritu Basnet
9. Shankar Pariyar

NMS M.Phil. Fellowship

The fellowship was awarded to

1. Biseswar Prashad Bhatt
2. Om Kumari Gaha
3. Grishma Acharya

NMS Master's Fellowship

The following were the awardees of this fellowship.

- Ganga Ram Joshi
- Jayanti Saud
- Mamata Kumari Chaudhary
- Ranjan Kumar Chaudhary
- Sandesh Thakuri

NMS-ANMA Fellowship

The fellowship is awarded to a boy and girl topper of Master's Entrance Examination. The awardees were **Bimala Chhetri** and **Roshan Koirala**.

JNMS Best Article Award

Dr. Jagat Krishna Pokharel and **Dr. Jeevan Kafle** received this award for their articles standing best in the Journal of Mathematical Society (JNMS).

S₂S ToT III Phase

Under the Society to Society (S₂S) project, the third phase of Training of Trainers (ToT) program was organized in online mode from 1 - 11 Asoj, 2081 (17 - 27 October, 2024) and in onsite mode from 14 - 17 Asoj 2081 (30 September, 1 - 3 October 2024) in Kathmandu. The program was supported by Nick Simons Foundation, USA. The chief guest in the opening was Mr. Ima Narayan Shrestha (Director General, Curriculum Development Center, Ministry of Education). In the onsite mode, the guests of honor were Dr. Khageshwar Mandal (Assistant Dean, IoST, TU) and Dr. Anil B. Shrestha (Ex-Executive Director, Nick Simons Institute).

The facilitators in the various areas were as follows.

Core Areas

1. Arithmetic and Combinatorics
 - Dr. Iswar Mani Adhikari, Associate Professor, Prithvi Narayan Campus, Pokhara, TU
 - Dr. Phanindra Prasad Bhandari, Associate Professor, Khwopa Engineering College, Purbanchal University
 - Mr. Ganga DC, Assistant Professor, Central Department of Mathematics, TU
 - Mr. Tek Bahadur Budhathoki, Assistant Professor, Thapathali Campus, TU
 - Mr. Krishna Pokharel, Assistant Professor, PN Campus, Pokhara, TU

- Mr. Bekha Ratna Dangol, Assistant Professor, Patan Multiple Campus, TU

2. Algebra

- Prof. Dr. Prakash Muni Bajracharya, Professor, Tribhuvan University
- Dr. Pushkar Raj Pokhrel, Associate Professor, Institute of Engineering Pulchowk, TU
- Dr. Ramesh Chandra Timsina, Associate Professor, Patan Multiple Campus, TU
- Dr. Bishnu Hari Subedi, Assistant Professor, Central Department of Mathematics, Tribhuvan University
- Dr. Jhavi Ghimire, Assistant Professor, Central Department of Mathematics, TU
- Mr. Gopal Prasad Acharya, Principal, Horizon Gautam Buddha Secondary School, Rupendehi

3. Calculus

- Prof. Dr. Narayan Prasad Pahari, Central Department of Mathematics, Tribhuvan University
- Dr. Durga Jang KC, Associate Professor, Central Department of Mathematics, TU
- Dr. Santhosh Ghimire, Associate Professor, Pulchowk Campus, IOE, TU
- Dr. R. L. Sah, Associate Professor, R. R. Campus, Janakpur, TU
- Mr. Arun Kumar Bhandari, Assistant Professor, Pulchowk Campus, TU
- Mr. Bishnu Prasad Bhandari, Assistant Professor, Nepal Engineering College, PoU

4. Geometry

- Dr. Parameshwari Kattel, Associate Professor, Trichandra Multiple Campus, TU
- Dr. Iswar Mani Adhikari, Associate Professor, Prithvi Narayan Campus, TU
- Dr. Pawan Shrestha, Assistant Professor, Central Department of Mathematics, TU
- Mr. Khagendra Raj Baral, PGT1, SOS Hermann Gmeiner School Gandaki, Pokhara
- Mr. Prem Gurung, Assistant Professor, Pokhara University

- Mr. Lok Bahadur Gurung, Prithvi Narayan Campus, Pokhara, TU

5. Trigonometry

- Dr. Shree Ram Khadka, Associate Professor, Central Department of Mathematics, TU
- Dr. Ganga Ram Phaijoo, Assistant Professor, Kathmandu University
- Dr. Khagendra Adhikari, Assistant Professor, Amrit Campus, TU
- Mr. Bimal Attreya, Kalika Manavgyan Secondary School, Butwal
- Mr. Bishnu Shrestha, Kathmandu World School

Independent Areas

1. Effective Teaching Strategies

- Prof. Dr. Bed Raj Acharya, Director of Graduate School of Education, TU
- Mr. Harsha Bahadur Chand, Assistant Professor, Far Western University

2. ICT in Mathematics

- Dr. Samir Shrestha, Associate Professor, Kathmandu University
- Dr. Saraswati Acharya, Associate Professor, Kathmandu University
- Dr. Jeevan Kafle, Assistant Professor, Central Department of Mathematics, TU
- Mr. Ghanshyam Adhikari, Singhadevi Secondary School, Jhapa

3. Language in Mathematics and Presentation Skills

- Dr. Hari Nandan Nath, Assistant Professor, Bhaktapur Multiple Campus, TU

4. Opportunities in Mathematics

- Prof. Dr. Chet Raj Bhatta, Head of Department, Central Department of Mathematics, TU

5. Project Based Learning

- Dr. Santosh Ghimire, Associate Professor, Pulchowk Campus, TU

S₂S at Koshi Province

Under Society to Society (S₂S) project, the Training of Teachers at Koshi Province was organized with the help of NMS Koshi Province Committee in online mode from 2 - 10 Kartik, 2081 (18 - 26 October, 2024) in online mode and in onsite mode from 12 - 14 Kartik, 2081 (28 - 30 October, 2024). The chief guest in the opening was Hon. Lila Ballav Adhikari (Minister, Ministry of Internal Affairs and Law, Koshi Province).

The facilitators in the various areas were as follows.

Core Areas

1. Arithmetic and Combinatorics

- Dr. Phanindra Prasad Bhandari, Associate Professor, Khwopa Engineering College, Purbanchal University
- Mr. Tek Bahadur Budhathoki, Assistant Professor, Thapathali Campus, TU
- Mr. Kumar Subedi, Assistant Professor, Mechi Multiple Campus, TU
- Mr. Sunil Duwadi, GEMS, Lalitpur
- Dr. Ram Chandra Dhungana, Assistant Professor, Kathmandu University
- Dr. Manoj Raut, Associate Professor, Degree Campus, TU, Biratnagar

2. Algebra

- Prof. Dr. Prakash Muni Bajracharya, Professor, Tribhuvan University
- Dr. Ramesh Chandra Timsina, Associate Professor, Patan Multiple Campus, TU
- Dr. Bishnu Hari Subedi, Assistant Professor, Central Department of Mathematics, Tribhuvan University
- Dr. Jhavi L. Ghimire, Assistant Professor, Central Department of Mathematics, TU
- Mr. Shanti Ram Subedi, Assistant Professor, Damak Multiple Campus, TU

3. Calculus

- Prof. Dr. Narayan Prasad Pahari, Central Department of Mathematics, Tribhuvan University
- Dr. Durga Jang KC, Associate Professor, Central Department of Mathematics, TU
- Dr. R. L. Sah, Associate Professor, R. R. Campus, Janakpur, TU

- Mr. Bishnu Prasad Bhandari, Assistant Professor, Nepal Engineering College, PoU
- Mr. DB Thapa, Assistant Professor, Damak Multiple Campus, TU
- Mr. Hari Prasad Gnawali, Assistant Professor, IoE, Pulchowk

4. Geometry

- Dr. Parameshwari Kattel, Associate Professor, Trichandra Multiple Campus, TU
- Dr. Iswar Mani Adhikari, Associate Professor, Prithvi Narayan Campus, TU
- Mr. Khagendra Raj Baral, PGT1, SOS Hermann Gmeiner School Gandaki, Pokhara
- Mr. Prem Gurung, Assistant Professor, Pokhara University
- Mr. Hem Raj Pandey, Assistant Professor, Pokhara University
- Mr. Tanka Kafle, Shree Shanti Bhagawati Ma Vi, Letang, Morang

5. Trigonometry

- Dr. Shree Ram Khadka, Associate Professor, Central Department of Mathematics, TU
- Dr. Ganga Ram Phaijoo, Assistant Professor, Kathmandu University
- Dr. Khagendra Adhikari, Assistant Professor, Amrit Campus, TU
- Dr. Gauri Bhuju, Assistant Professor, Bhaktapur Multiple Campus, TU
- Mrs. Tej Kumari Acharya, Sanischare Ma Vi, Jhapa

Independent Areas

1. Effective Teaching Strategies

- Prof. Dr. Bed Raj Acharya, Director of Graduate School of Education, TU

2. ICT in Mathematics

- Dr. Samir Shrestha, Associate Professor, Kathmandu University
- Mr. Ghanshyam Adhikari, Singhadevi Secondary School, Jhapa
- Mr. Hari Prasad Bhatta, Assistant Professor, Aishwarya Multiple Campus, Dhangadhi
- Mr. Veer Chalaune, Prithvi Secondary School, Bardiya

3. Language in Mathematics and Presentation Skills

- Dr. Hari Nandan Nath, Assistant Professor, Bhaktapur Multiple Campus, TU
- Ms. Manju Subedi, Assistant Professor, Gandaki University, Pokhara

4. Opportunities in Mathematics

- Prof. Dr. Chet Raj Bhatta, Head of Department, Central Department of Mathematics, TU

5. Project Based Learning

- Dr. Santosh Ghimire, Associate Professor, Pulchowk Campus, TU

ICMA 2024, Kathmandu

Jointly organized by Nepal Mathematical Society, Central Department of Mathematics (Tribhuvan University), Department of Mathematics (Kathmandu University) in collaboration with Nepal Sanskrit University, South Asian University, Andra Pradesh and Telanga Society for Mathematical Sciences, and East China University of Technology, the Second International Conference on Mathematics and Applications (ICMA 2024) was held from Mangsir 28 to Mangsir 30, 2081 BS (December 13 - 15, 2025) in Hotel Best Western Plus, Kathman-



du. There were participants from 17 countries - Nepal, India, Bangladesh, China, USA, United Kingdom, Italy, Poland, Czech Republic, Germany, Nigeria, Philippines, Algeria, West Africa, Portugal, South Korea. In the conference, there were a total of 180 presentations including 5 plenary talks focussing on recent trends, and latest developments various field of Mathematics. Prof. Dr. Chet Raj Bhatta, and Prof. Dr. Narayan Prasad Pahari were the conference chairs. NMS sincerely thanks all the participants, the steering committee, the organizing committee, scientific committee, technical committee, and advisory committee. Special thanks go to the conveners Prof. Dr. Dil Bahadur Gurung, Prof. Dr. Dinesh Panthi, and Dr. Jeevan Kafle.

The brief description of the conference is as follows.

Inaugural Session

Chair: Prof. Dr. Narayan Prasad Pahari, President, NMS

MC: Dr. Jeevan Kafle, Convener, ICMA-2024

Welcome Speech: Prof. Dr. Chet Raj Bhatta, Head, Central Dept. of Mathematics, Tribhuvan University

Remarks by Convener: Prof. Dr. Dinesh Panthi

Remarks by Chief Guest: Prof. Dr. Kedar Prasad Rijal, Registrar, Tribhuvan University

Concluding Remarks: Prof. Dr. Narayan Prasad Pahari, President, Nepal Mathematical Society

Plenary Talks

- **Prof. Dr. V.P. Saxena:** Dynamics of Certain Human Body Circulations
- **Prof. Dr. Andrea Braides:** Homogenization of Unilateral Constraints
- **Prof. Dr. Neela Nataraj:** A Unified Framework for Lowest-Order FEM for Fourth-Order Elliptic Problems
- **Prof. Dr. Asela K. Kulatunga:** Role of Industrial Mathematics Towards Sustainable Consumption and Production
- **Prof. Dr. Dinesh G Sarvate:** Combinatorial Designs: An Introduction with Open Problems and t-group Divisible Designs

Parallel Sessions

- **Puskar R Pokhrel:** Experimental Analysis of Mixture Mass Flows with Coupling
- **U. Rajopadhyaya:** Development of Some Common Fixed Point Theorems in Semi-metric Space Using various contractive condition
- **Rajeev Misra,** Rizwana Bano, Akshay Rajput, Ashwani Singh: A Comparative Study of Road Traffic Accidents in India: Analysing the National Trends
- **Kuncham Syam Prasad,** Tapatee S, Rajani S, Kedukodi B.S., Harikrishnan Panackal: Graphs with Respect to Essential Ideals and Superfluous Ideals of Module Over a Nearings
- **Md. Amirul Islam,** Md. Saiful Islam, Mst. Shapla Akter, Md. Shafikul Islam: Analytical Schemes of Solitary Wave Solutions for Nonlinear PDEs Using the Novel (G'/G) Expansion Method

- **Bal B Tamang**, Ajaya Singh: Determining the Solvability or Unsolvability of Modified Quadratic Diophantine Equations
- **Maheshwor Pokhrel**, Lekhnath Sharma: Investigating Students' Perceptions of Self-Directed Learning in Mathematics at the Basic School Level
- **Qiong Zou**, Tangwei Liu, Xiaoqing Ruan, Dingding Yan: The Numerical Method Based on Neural Network Method for a Class of Three-Dimensional Steady-State Heat Conduction Problems with Side Boundary Conditions
- **Hari Nandan Nath**: Maximum Flow Location Modeling without Restrictions on Facility Sizes
- **Daniel Oluwasegun Adams**: Boundedness Results for Solutions of Certain Second Order Non-Autonomous Ordinary Differential Equations
- **Rakesh Kumar Meena**: Study on Susceptible-Infected-Recovered-Removed Model with Fractional Order Using Residual Power Series Method
- Pallavi P., Kuncham S.P., Madeleine Al Tahan, Vadiraja Bhatta, **Harikrishnan Panackal**: Weak Hypervector Spaces over Hyperfield
- **Eeshwar Prasad Poudel**, Shreeram Khadka, Jeevan Kafle: Solutions of Two Dimensional Contaminant Transport in Turbulence Atmospheric Model
- **Ajay Kumar, Ramakanta Meher**: Comparative Study of Advanced Analytical Methods for Solving Fractional Differential Equations
- **Jagat Krishna Pokharel**, Narayan Prasad Pahari: On New Space of Vector-Valued Generalized Bounded Sequences Defined on Product Normed Space
- **Rakesh M. Patel**, Pragna A. Vadher, Gunamani B. Deheri: Ferrofluid-Based Tilted Deformable Rough Porous Pad Bearing
- **Kamalesh Kumar Lal Karn**: Optimizing Dengue Outbreak Predictions Using Fuzzy Logic
- **Falalu Muhammad**: Transmission Dynamics of Meningitis to Determine the Significance Impact of Vaccination, Negative Effect of Carrier and Control on Children under 15 Years in the NorthWestern Nigeria
- **Dingding Yan**, Tangwei Liu, Keyao Li, Wanglin Ouyang, Qiong Zou: The Numerical Method Based on Neural Network Method for a Class of Steady-

State Heat Conduction Inverse Problems on Annular Domains

- **Enyinnaya Ekuma-Okereke**: Hybrid Iterative Process for Solving Nonlinear Problems: An Application in Bratu and Delay Differential Equations
- **Thaneshor Bhandari**, K.B. Manandhar, Kanhaiya Jha: Fixed Point Theorems in Fuzzy b-Metric Space with an Application to Fredholm Integral Equation
- **Arjun Kumar Gaire**, Mohammad Shahid, Yogendra Bahadur Gurung: New ArcTan-Family of Distribution, Properties, and Application
- **Dal Bahadur Saud**: Dynamics of Almost Abelian Holomorphic Semigroups
- **Bishnu Bahadur Badaila**: Teachers' Perceptions and Practices of Digital Technology for Promoting Equity in Mathematics Classroom
- **Sushil Chandra Karna**: Dual Satellites: Orbital Dynamics
- **Bhuwan Prasad Ojha**, Prakash Muni Bajracharya: Some Generalizations of Orthogonality in Terms of Bounded Linear Operators
- **R. Kavin, A. K. Majee**: Well-Posedness of Nonlinear SPDE Driven by Lévy Noise
- **Padam Sharma**: Mathematical Study of Heat Regulation in a Human Body with Dermal Tumor Having Malignancy
- **Dilip Kumar Sah**, Ajay Kumar Chaudhary, Chet Raj Bhatt: Contraction Mappings in Probabilistic Metric Space
- **Bekha Ratna Dangol**, Jeevan Kafle, Shiva P. Pudasaini: Fundamental Solution to a Universal Dispersive Wave Equation
- **P. K. Sah**, K. B. Manandhar, K. Jha: On Some Applications of Metric Spaces
- **Abhishek Singh**, Prashant Singh: Predictive Accuracy of Time Series and Machine Learning Models: An Application to Life Expectancy at Birth Data
- **Phanindra Prasad Bhandari**, Shree Ram Khadka: Application of Lex-Max Flow Problem in Vertex Restricted 1-Center Problem with Fixed Demands at Prioritized Vertices
- **Gyan Prasad Paudel**, Narayan Prasad Pahari, Sanjeev Kumar: Double Sequence Space of Fuzzy Real Numbers Defined by Orlicz Function

- **Saoudi Khaled:** On the Existence and Asymptotic Behavior of Solutions of a Class of Reaction-Diffusion Systems with Exponential Growth Reaction
- **S. Sarat Singh,** Oinam Zenith: Haskell Matrix Method in the Propagation of Love Waves in Multi-layers of Magneto-Thermoelastic Materials
- **Poonam Singh,** Pooja Maurya, Prayas Sharma: Addressing Non-Response and Measurement-Errors in Population Mean Estimation Using Memory Exponential Type Estimators
- **Harish Chandra Bhandari,** Yagya Raj Pandeya, Kanhaiya Jha: Graph Neural Network for a Family of Weather Data Imputation
- **Anup Tuladhar:** Modeling Within-Host Co-Infection Dynamics of SARS-COV-2 Infection Underlying HIV Infection
- **Prem Kumari Dhakal,** Harsh Bahadur Chand: Causes of Low Enrollment and Dropout of Students in University Level Mathematics in Nepal
- **Hem Raj Pandey,** Ganga Ram Phaijoo, Dil Bahadur Gurung: Optimal Control Analysis of Dengue Disease Transmission Dynamic in Nepal
- **Pinakee Dey:** Qualitative Analysis of the Soliton Solutions to the Time-Fractional Generalized Kadomtsev-Petviashvili Model
- **Pradeep Rai,** Bhupendra Singh, Ashok Ji Gupta: Quantum and LCD Codes from Skew Constacyclic Codes over a General Class of Non-chain Rings
- **Aishwarya S.,** Kedukodi Babushri Srinivas, Kun-cham Syam Prasad: On Permutation Identities and Commutativity in Nearings
- **Nandu Prasad Koiri,** Ajay Kumar Chaudhary, Rajeev Kumar, K. B. Manandhar: Weaker Forms of Commuting Mappings in Fuzzy Metric Space
- **Purushottam Parajuli,** Narayan Prasad Pahari: On Some Sequence Spaces of Bi-Complex Numbers
- **Sachin Wagle, Tanka Nath Dhamala:** Multi-Commodity Flow Location Problems with Solution Strategy
- **Gaurav, L. P. Singh:** Simple Waves in Two-Dimensional Magnetohydrodynamics for Anti-Van Der Waals Modified Chaplygin Gas
- **Ganga Ram Phaijoo:** Modelling Infectious Diseases: Analysing the Impact of Control Measures

- **Václav Mácha, Sebastian Schwarzacher:** Global BMO Estimates for Non-Newtonian Fluids with Perfect Slip Boundary Conditions
- **Raj Kumar Pradhan, Samir Shrestha, Dil Bahadur Gurung:** Mathematical Study of Impact of Non-Signalized Road Crossing on Vehicular Emissions and Fuel Consumption
- **Brayan F. Bullang,** Imelda S. Aniversario: Semitotal Roman Dominating Function in Graphs
- **Bharat Bahadur Thapa,** Ganga Ram Phaijoo, Samir Shrestha: Stability and Sensitivity Analysis of SEITR-SEI Model of Malaria Disease Transmission
- **Madhav Prasad Poudel,** Narayan Prasad Pahari, Dongkyu Lim, Arjun K. Rathie: A Note on Evaluation of a New Class of Integrals Involving Generalized Hypergeometric Function
- **Pankaj Jain:** Hausdorff and Dunkl-Hausdorff Operators on Function Spaces
- **Enyinnaya Ekuma-Okereke:** Hybrid Iterative Process for Solving Nonlinear Problems: An Application in Bratu and Delay Differential Equations
- **Md Rashed Talukder,** S.N. Begum, M. S. Bhuyan: Ideals and Fuzzy Ideals in Heyting Algebras
- **Avinash Kumar,** M S Panwar: Sub-Distribution Hazard Modelling of Competing Risks Data with Longitudinal Measurements
- **Sandeep Singh:** Recent Developments on the Non-Inner Automorphism Conjecture of Finite p-Groups
- **Jayadev Nath,** Ishwari Jang Kunwar, Chet Raj Bhatta: Multi-Linear Variable Haar Multiplier
- **Rajendra Paudyal,** Phanindra Prasad Bhandari, Shree Ram Khadka: On Lexicographic Network Flow Problems
- **Krishna Kanta Parajuli:** Vedic Sutra: Urdhav Tiryagbhyam
- **K. Somaiah,** G. Rajkumar, K. Narsimha Rao: Analysis of Longitudinal Vibrations in a Micropolar Micro-Stretch Elastic Cylinder Under the Effect of Surface Stress
- **Olanegan O. O.,** Adeyefa E. O.: Modified Hybrid Approach for Direct Integration of Third and Fourth-Order Application Problems

- **Ajmeera Chandulal:** Wave Propagation in Micro-morphic SH Waves in Contact
- **Uday Kumar Karna,** Ajay Kumar Chaudhary, Chet Raj Bhatta: Generalization of Contraction Mapping in Metric Space
- **Giri Raj Paneru,** Hari Nandan Nath, Tanka Nath Dhamala: Minimum Degradation of Demand Supply to Make Feasible Flow with Minimum Cost Flow
- **Gunakhar Pokharel,** Phanindra Prasad Bhandari, Shree Ram Khadka: A Case Study on Evacuation Mitigation of Tinau Flood Victims
- **Parameshwari Kattel,** Shiva P. Pudasaini: Multiphase Mass Flows: Numerical Simulations and Laboratory Experiments
- **Diddi Kumara Swamy,** Bindu Shrivani: Exponential B-spline Method for Differential Difference Equations Having Layer Behaviour with Negative Shift
- Rajvinder Kaur, Sapna Sharma, **Avinash Chandra,** Pradeep Kumar, Dhananjay Singh: Convective Heat Transfer from a Highly Porous Obstacle Affixed to the Wall of a Rectangular Channel to Air at Low Reynolds Numbers
- **Prayas Sharma:** Can WhatsApp Improve the Academic Performance? A Statistical Analysis
- **Ganga Ram DC,** Jivandhar Jnawali, Naveen K Vaidya, Kedar Nath Uprety: Mathematical Study of the Transmission Dynamics of Lumpy Skin Disease in Karnali Province, Nepal
- **Tara Bahadur Rana:** Quantum Continuity Equation: Implication for Bohmian Mechanics
- **Pitamber Tiwari,** Chet Raj Bhatta: Hermite-Hadamard Type Integral Inequality for Generalized Harmonically Convex Functions in Quantum Calculus
- **K.B. Manandhar:** Fixed Point Theory and Compatible Mappings of Type (K)
- **Sanjay Kumar,** Deepmala Sharma: An Enhanced Image Encryption Technique Using Chaotic Maps and Particle Swarm Optimization
- **Ashish Kumar:** Discrete Chaos Using Four-Step Approximation Method with Applications
- **Sajal Halder:** An Overview of El Dika's Proof of Asymptotic Stability of Solitary Waves for the BBM Equation
- **Mohammad Mokaddes Ali,** Rowsanara Akhter: Magnetohydrodynamic Transient Natural Convection in Hybrid Nanofluid Filled Porous Wavy Cavity Containing Solid Obstacle
- **Ganesh Bahadur Basnet,** Narayan Prasad Pahari: A Result on an Integral Involving Product of Two Generalized Hypergeometric Functions
- **Molhu Prasad Jaiswal,** Narayan Prasad Pahari: Some Properties of Vector-Valued Sequence Spaces and Extension to Bi-Complex Numbers
- **Khagendra Adhikari,** Ramesh Gautam, Anjana Pokharel, Kedar Nath Uprety, Naveen K. Vaidya: Estimating Pandemic Risks: Insights from Nepal's COVID-19 Response
- **Saikh Shahjahan Miah,** Md. Hridoy Hasan: Separation Axiom on Intuitionistic Fuzzy Pairwise Topological Space Using Intuitionistic Fuzzy Open Sets
- **Vijay Kumar Bhat:** On Some Topological Indices for the Orbit Graph of Dihedral Group
- **Ananta Upreti,** Jivandhar Jnawali, Kedar Nath Uprety, Naveen K. Vaidya: Modeling of Transmission Dynamics of Dengue Infection in Kathmandu Valley, Nepal: Impact of Inadequate Waste Management
- **Vishalkumar J. Prajapati,** Lalchand Verma, Ramakanta Meher: Numerical Investigation of the Fractal-Fractional Order Model for Diabetes Mellitus Considering Media-Driven Awareness Program
- **Parshuram Chaudhary,** Dinesh Panthi, Chet Raj Bhatta, Dinesh G. Sarvate: Ethnomathematical Ideas in Tharu Women's Traditional Ornaments
- **Bishnu Prasad Chapagai,** Phanindra Prasad Bhandari, Shree Ram Khadka: On Network Interdiction Problems
- **Kedar Nepal,** Deepak Basyal, Krishna Pokharel: Learning Opportunities for Solving Context-Based Calculus Tasks in Nepal's High School Mathematics Textbooks
- **Tangwei Liu, Keyao Li,** Wanglin Ouyang, Dingding Yan, Qiong Zou: The Numerical Method Based on Neural Network Method for a Class of Steady-State Heat Conduction Inverse Problems on Annular Domains

- **Raghujiyoti Kundu:** Almost Pseudo Symmetric LP-Sasakian Manifold with Respect to General Connection
- **Y. N. Reddy:** Need for Robust Numerical Methods
- **Ayan Mahalanobis:** An Attack in the Elliptic Curve Discrete Logarithm Problem
- **Manoj Marasini, Dinesh Panthi, Krishna Kanta Parajuli:** Learners' Reflection on Intricacies of Learning Mathematics: An Observation in Sanskrit Schools
- **Ajay Kumar Chaudhary:** Weakly Compatible Mappings of Type (P) in Menger Space
- **D.T. Achaku, B. Sani:** Capacitated Vehicle Routing Problem with Time Windows for Abuja Post Office
- **Rajesh Singh, Sunil Kumar Yadav:** Construction of Almost Unbiased Estimator for Parameter β Using Auxiliary Information Under Simple Random Sampling
- **Shiva Hari Subedi,** Russell Alpizar-Jara, Gyan Bahadur Thapa: Metrological and Demographic Influences on Dengue Outbreaks in Nepal: A Mathematical Study With PSO-RNN Approach
- **Ritu Basnet Thapa,** Ram Prasad Ghimire, Sushil Ghimire: Performance Analysis of Finite Capacity and Multiple Server Queueing System with Maintenance
- **Anil Chandra Jha,** Dinesh Panthi, Dinesh G. Sarvate, Shailendra Kumar Mishra: Hindu Mathematics in the Later Classical Period
- **Shree Ram Khadka,** Phanindra Prasad Bhandari: Maximum Flow Transshipment over Networks
- **A. K. Malik:** Analysis of Preservation Technology based Green Supply Chain model
- **Nitu Kumari:** Solving Reaction Diffusion Equation Using Transformer Based Koopman Autoencoder
- **Dibakar Raj Pant,** Nabin Lal Shrestha: Image Forgery Detection Using Capsule Network Based on VGG19
- **Resham Prasad Paudel,** Narayan Prasad Pahari: Few Theorems on an Extension of Bailey's Formula Involving Product of two Generalized Hypergeometric Functions
- **V. Raja Venkat Ram,** M. Raghavender Sharma, D. Gopinath: Forecasting of Cognitive Neuroscience Using Machine Learning Hybrid Models
- **Janak Prasad Neupane,** Binita Kharel: Effect of Using Wolfram Alpha on Students' Cognitive Engagements
- **Jhavi Lal Ghimire:** On Certain Types of Difference Sequence Spaces Defined by Orlicz Function and Ideal Convergence
- **B. Mallikarjuna:** Optimising Differential Equation Solutions Using Physics-Informed Neural Networks (PINNS): A Comparative Study
- **Sunjay:** Matrices Computation in Seismic Imaging
- **Aakansha:** A Parameter Uniform Domain Decomposition Method for Singularly Perturbed Semilinear Coupled System
- **Maddileti Pasupula,** M. Shiva Krishna: Role of Magnetic Field on Blood Flow with Suspended Silver Nanoparticles Through Stenosed Artery
- **Chudamani Pokharel,** Pushpa Nidhi Gautam, Jeevan Kafle, Chet Raj Bhatta: Analysis of Hemodynamic Parameters on Twolayered Blood Flow in an Artery with Mild Stenosis
- **Pawan Shrestha,** Durga Jang KC, Ramjee Sharma: Numerical Study of Burgers Equation and Its Application
- **Neeta Mazumdar,** Smita Sanzgiri: Mathematical Model for Crimes in Goa with Some Governing Design
- **Debayan Koley, Abhimanyu Singh Yadav:** Statistical Inferences for the Generalized Rayleigh Distribution Under an Adaptive Progressive First-Failure Censoring Scheme
- **Salah Uddin Mohammad,** Durjoy Ghosh, Md. Rashed Talukder: A Polynomial-Time Algorithm for Constructing Nondecreasing Integer Partitions and Its Application
- **Beyi Boukary:** q^2 -Difference and Maliavin Calculation in the Modeling and Mathematical Analysis of Some Dermatoses: Case of Urticaria
- **Raghu Bir Bhatta,** Samir Shrestha, Dinesh Panthi, Chet Raj Bhatta: Mathematical Modeling, Analysis, and Yogic Prevention of Infectious Disease Dynamics

- **Ramesh Gautam:** Modeling Malaria Transmission with Relapse Delay: Impact on Elimination Plan of Low Endemic Countries
- **Sabina Islam, Mahadie Hassan:** Trend and Determinants of Fertility Dynamics in Bangladesh
- **Vikas Baranwal, Sanjeev K. Tomer:** Robust Bayesian Estimation of Transition Probabilities of an Extended Illness-Death Model
- **Sandeep Singh:** Recent Developments on the Non-Inner Automorphism Conjecture of Finite p-Groups
- **Shankar Pariyar, Bishnu Lamichhane, Jeevan Kafle:** Numerical Solution of Advection Diffusion Equation by Using Fractional Bernstein Polynomial
- **M. Ali Akbar, Mominul Islam:** Mathematical Analysis of the Fractional COVID-19 SEIR Model and the Impact of Fractional-Order Derivative
- **Samir Shrestha, Utsav Darlami, Asim Mahat, Unique Karki, Parash Mani Timilsina:** Genetic and PSO Algorithm for Optimization of Artificial Neural Network Modeled Multivariate Function: An Application to Lactic Acid Production
- **Upender Reddy Ganga, K. Varalakshmi:** Certain Fixed-Point Theorems in Gb-Metric Space
- **Yajuvindra Kumar:** The Haar Wavelet Analysis of Free Axisymmetric Vibration of Elastically Restrained FG Annular Plate Resting on Foundation
- **G. Upender Reddy, Naresh Parkala:** Quadruple Fixed Points Results in Bipolar Metric Spaces
- **Chet N. Tiwari, Parameshwari Kattel, Shiva P. Pudasaini:** Experimental Slowflow and Numerical Simulation of Slowflow Model
- **Prajwal Bir Singh Kansakar, Bishnu Hari Subedi, Ajaya Singh:** Quasiconformal Folding Methods in Holomorphic Dynamics
- **Prakash Joshi, Gokul KC, Pushpa Raj Adhikary:** Threshold-Based Hash-Based Digital Signatures in Finite Fields for Distributed Quantum-Resistant Systems
- **Kumar Subedi, Dinesh Panthi, Kanhaiya Jha, Chet Raj Bhatta:** Some Common Fixed Point Theorems in Dislocated Metric Space
- **Gokul K.C.:** Zero Knowledge Proof in Digital Currency Security

- **Sanjeev Kumar:** A Rigorous Mathematical Analysis to Explore the Density of Tumour Cells and Immune Response
- **Abhimanyu Singh Yadav:** On the Estimation of Two-Parameter Inverted Kappa Distribution: Characterizations and its Application to Lifetime Data
- **S.N. Begum, M. Mohiuddin, M.R. Talukder:** Lattice of Stone Ideals and *-Filters of a PJP-Semilattice
- **K. Ramesh Babu:** Heat and Mass Transfer Effects on Non-Newtonian Nanofluid Flows
- **Pushpa Nidhi Gautam, Ganga Ram Phaijoo, Parameshwari Kattel, Jeevan Kafle:** Effect of Thickness of the Stenosis: Two-Layer Model
- **Laxman Bahadur Kunwar:** Mathematical Analysis of Alcoholism as a Communicable Disease with Time Delay
- **Tek B. Budhathoki, Pushkar R. Pokhrel:** Dynamic Analysis of Mixture Mass Flow in Nepalese Supergrains

Poster Session

- **Thakur Prasad Pokharel:** The Cause and Effect between the Attitude towards Mathematics of Master Business Students and Success in Business Studies in Pokhara Valley
- **Nikita Shrestha, Ayusha Kafle, Muktinath Chaudhary, Shiva Hari Subedi, Gyan Bahadur Thapa:** Age-Based Parameters Estimation for SIR Modelling of COVID-19 in Nepal
- **Sandesh Thakuri, Bishnu Hari Subedi, Tulasi Prasad Nepal:** Applications of Galois Theory
- **Gaurab Chand, Shree Ram Khadka:** Paul Erdős's Two Conjectures' Proof Progress in Hypergraphs
- **Pramila Kharel, Gunakhar Pokharel, Phanindra Prasad Bhandari, Shree Ram Khadka:** Comprehensive Study on Particle Swarm Optimization and its Applications
- **Kedar Nath Chhatkuli, Jeevan Kafle:** A Mathematical Modelling of Blood Flow through Artery with Bell-shaped Stenosis
- **Bikas Tamang, Bekha R. Dangol, Jeevan Kafle:** The Influence of the Physical Parameters on the Landslide Dynamics
- **Tuk Rana, Jeevan Kafle:** Analysis of Blood Flow Through an Overlapping Mild Stenosis

- **Bishnu Prasad Bhandari**, Jeevan Kafle, Chudamani Pokharel: Effect of Blood Flow through Mild Stenosed Artery with Effective Viscosity
- **Biddha Pokhrel**, Pushpa N Gautam, Jeevan Kafle: Effect of Timely Varying Curvature on Hemodynamics
- **Prem Prakash Kaphle**, Narayan Prasad Pahari: On Certain Difference Sequence Space using Orlicz Function
- **Grishma Acharya**, Prakash Shrestha, Jeevan Kafle, Sudarshan Tiwari: A Meshfree Arbitrary Eulerian-Lagrangian Method for Conservation Equations
- **Uttam Pokharel**, Phanindra Prasad Bhandari, Shree Ram Khadka: On Network Facility Location Problems
- **Biseswar Prashad Bhatt**: On the Sum of Maximal Monotone Operators
- **Shanta Gautam**, Keshab Prasad Adhikari: Redefining Human Development Measurement: A Multi-Dimensional Model for Grassroots Assessment
- **Sujan Pokhrel**, Ganga Ram Phaijoo: Modeling COVID-19 Transmission in Nepal Using the SEIQR Framework
- **Tangwei Liu**, Dingding Yan, Qiong Zou: A Class of Cauchy Problem for the Poisson Equation from Steady-State Heat Conduction in Multilayer Media
- **Mohammad Azharuddin Sanpui**: Externalities in Chore Division
- **Sunil Duwadi**, Jeevan Kafle, Shiva P. Pudasaini: Thermo-Mechanical State of Rock-Ice Avalanche: Analytical Solution

Closing Session

Chair: Prof. Dr. Chet Raj Bhatta, HoD, Central Department of Mathematics, Tribhuvan University

MC: Dr. Sameer Shrestha, Coordinator, Technical Committee, ICMA-2024

Remarks by Convener: Prof. Dr. Dil B Gurung, Convener, ICMA-2024

Announcement of Best Poster: Dr. Hari Nandan Nath, Member Steering Committee, ICMA-2024

Remarks: Prof. Dr. Narayan Prasad Pahari, President, Nepal Mathematical Society

Concluding Remarks: Prof. Dr. Chet Raj Bhatta, Head, Central Department of Mathematics, TU

Executive Committee 2025-2027

On 19 Magh 2081 (February 1, 2025), the Nepal Mathematical Society held its 11th General Assembly in Kathmandu and elected a new Central Executive Committee as follows.



1. **President:** Dr. Shreeram Khadka
2. **Vice President:** Dr. Parameshwari Kattel
3. **Secretary:** Dr. Ramesh Gautam
4. **Joint Secretary:** Dr. Nabaraj Adhikar
5. **Treasurer:** Dr. Saraswati Acharya

Members:

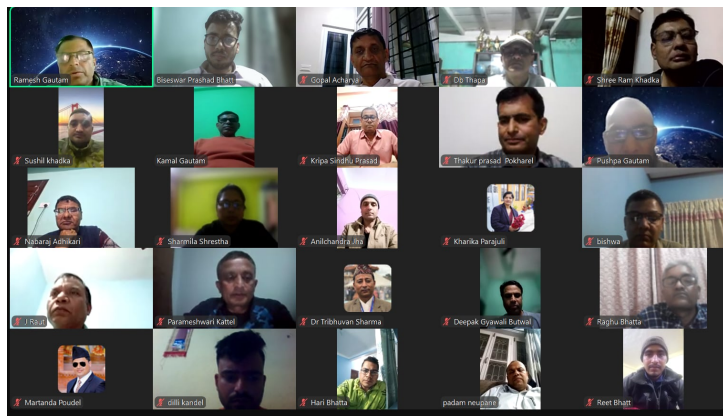
6. Dr. Hari Nandan Nath (*Nominated*)
7. Dr. Anil Chandra Jha (*Nominated*)
8. Dr. Sharmila Shrestha
9. Dr. Kharika Devi Parajuli
10. Mr. Pushpanidhi Gautam
11. Mr. Gunakhar Pokharel
12. Mr. Sushil Khadka
13. Mr. Biseswar Prashad Bhatt

The executive committee nominated the following advisors:

1. Prof. Dr. Kedar Nath Upreti
2. Prof. Dr. Chet Raj Bhatt
3. Prof. Dr. Narayan Prasad Pahari
4. Prof. Dr. Dil Bahadur Gurung
5. Prof. Dr. Dinesh Panthi

NMS Extended Meeting

On Falgun 2, 2081 (February 14, 2025), an extended meeting of the Nepal Mathematical Society was held under the chairmanship of outgoing President Prof. Dr. Narayan Prasad Pahari. The meeting was attended by members of the former Central Executive Committee, the newly elected Executive Committee, and office bearers from all seven provinces. During the meeting,



On Falgun 2, 2081 (February 14, 2025), an extended meeting of the Nepal Mathematical Society was held under the chairmanship of outgoing President Prof. Dr. Narayan Prasad Pahari. The meeting was attended by members of the former Central Executive Committee, the newly elected Executive Committee, and office bearers from all seven provinces. During the meeting, Prof. Dr. Pahari and his team were formally thanked and congratulated for completing their three-year term successfully and with notable achievements. Office bearers from all provinces, as well as other attendees, extended their congratulations to the newly elected Central Executive Committee, along with valuable suggestions and advice. The newly elected President of the Society, Associate Professor Dr. Shreeram Khadka, expressed his commitment to take all suggestions into consideration and to promote the advancement of

Life Membership Certificate Distribution

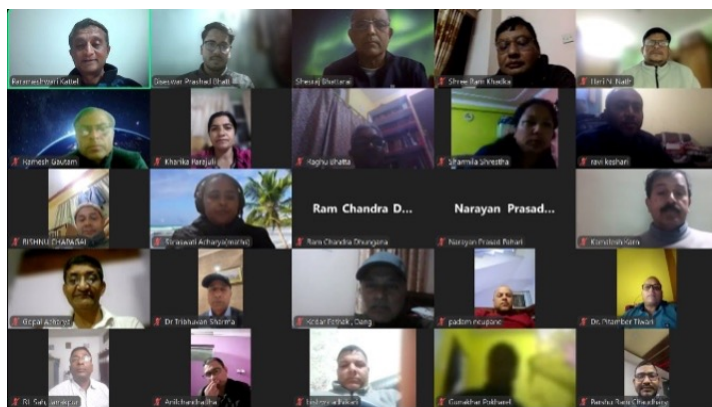
Nepal Mathematical Society has begun to distribute the life membership certificate to its life members. The first certificate was awarded to Prof. Dr. Chet Raj Bhatta, former president of NMS and Head of the Central Department of Mathematics, Tribhuvan University. So far 41 certificates have been distributed. Any life member can place a request for the certificate via the official email of NMS: nepalmathsociety@gmail.com.



Syllabus Improvement Initiative

Under the leadership of Associate Professor Dr. Shree Ram Khadka, President of the Nepal Mathematical Society, an online meeting was held with 60 mathematics teachers of +2 level and professors from various campuses across the country. The purpose of the meeting was to gather suggestions for addressing existing problems and making necessary improvements in the curriculum, question paper design, and answer sheet evaluation of the mathematics subject at the undergraduate level in science and humanities under Tribhuvan University.

The Chair of the Mathematics Subject Committee and Head of the Central Department of Mathematics, Prof. Dr. Chet Raj Bhatta, and the former President of the Society, Prof. Dr. Narayan Prasad Pahari also took part on the discussions.



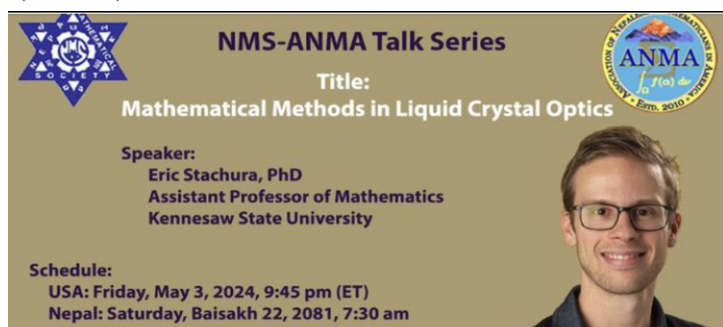
The suggestions raised during the discussion were under the following topics.

Discussion Points:

1. The overloaded and overlapping curriculum needs to be revised.
2. The curriculum and content for elective subjects must be clearly defined.
3. Teaching methods should be updated in line with developments in time and technology.
4. Question papers should be fully based on textbooks and should include questions of all levels in an alternative format.
5. The evaluation of answer sheets must be conducted by teachers of the relevant subject, with a strong sense of responsibility.
6. questions of all levels in an alternative format.
7. The evaluation of answer sheets must be con-

NMS-ANMA Talk Series

NMS-ANMA Talk Series is a research talk series jointly organized by Nepal Mathematical Society (NMS) and Association of Nepalese Mathematicians in America (ANMA).



NMS-ANMA Talk Series

Title:
Mathematical Methods in Liquid Crystal Optics

Speaker:
Eric Stachura, PhD
Assistant Professor of Mathematics
Kennesaw State University

Schedule:
USA: Friday, May 3, 2024, 9:45 pm (ET)
Nepal: Saturday, Baisakh 22, 2081, 7:30 am

On Baisakh 22, 2081 (May 3, 2024), **Dr. Eric Stachura**, Assistant Professor of Mathematics at Kennesaw State University, USA delivered an online talk on *Mathematical Methods in Liquid Crystal Optics*.



NMS-ANMA TALK SERIES

Exploring Advanced Applications in Metric Fixed Point Theory from Theoretical Foundations to Real-World Impacts

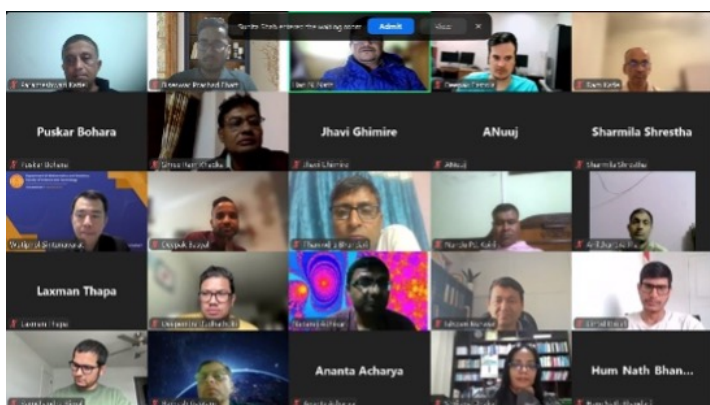
Invited Speaker
Prof. Dr. Wutiphol Sintunavarat, PhD
Department of Mathematics and Statistics
Thammasat University, Thailand

Date: March 16, 2025 (Chaitra 03, 2081 BS)
Time: 08:15 PM (Nepal), 09:30 AM (USA CST), 09:30 PM (Thailand)

Zoom Link: <https://zoom.us/j/95781847908?pwd=Jambmna1wHEvSdgngk55WgXpR3aGe8.1>

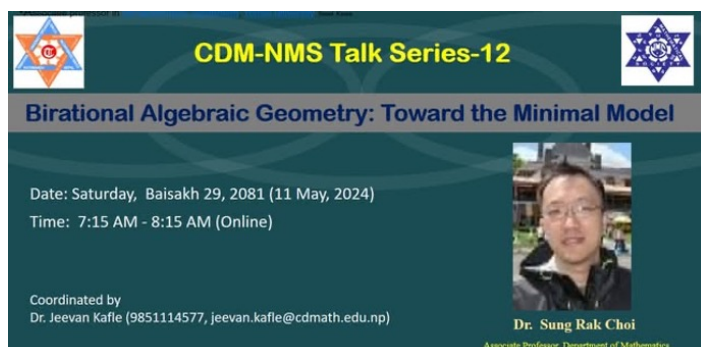
Organized by
Nepal Mathematical Society and Association of Nepalese Mathematicians in America

On Chaitra 3 at 8:15 PM, world-renowned Thai mathematician **Prof. Dr. Wutiphol Sintunavarat**, who is also an honorary member of NMS, delivered a talk titled *Exploring Advanced Applications in Metric Fixed Point Theory: From Theoretical Foundations to Real-World Impacts* to an audience of over 80 mathematicians from Nepal and abroad. In this program, the presidents of both ANMA and NMS delivered welcome remarks and expressed their gratitude to Prof. Dr. Wutiphol Sintunavarat with a vote of thanks.



NMS-CDM Talk Series

NMS-CDM Talk Series is a research talk series jointly organized by Nepal Mathematical Society (NMS) and Central Department of Mathematics, Tribhuvan University, Nepal.



CDM-NMS Talk Series-12

Birational Algebraic Geometry: Toward the Minimal Model

Date: Saturday, Baisakh 29, 2081 (11 May, 2024)
Time: 7:15 AM - 8:15 AM (Online)

Coordinated by
Dr. Jeevan Kafle (9851114577, jeevan.kafle@cdmath.edu.np)

Dr. Sung Rak Choi
Associate Professor, Department of Mathematics

On Baisakh 29, 2081 (May 11, 2024), **Dr. Sung Rak Choi**, Associate Professor at the Department of Mathematics, Yonsei University, Seoul, South Korea, who is also an honorary member of NMS, delivered a research talk on *Birational Algebraic Geometry: Toward the Minimal Model*.

On Bhadra 1, 2081 (August 17, 2024), **Dr. Bishnu Lamichhane**, Associate Professor at the Department of Mathematics, University of Newcastle, Australia delivered an online research talk on *Research in Mathematics: Tools, Research Proposal, Methodology*.



On Bhadra 8, 2081 (August 24, 2024), **Prof. Dr. Bed Raj Acharya**, Director of Graduate School of Education, Tribhuvan University delivered an online research talk on

Enhancing Teaching Strategies in Mathematics: Exploring Diverse Pedagogical Methods.

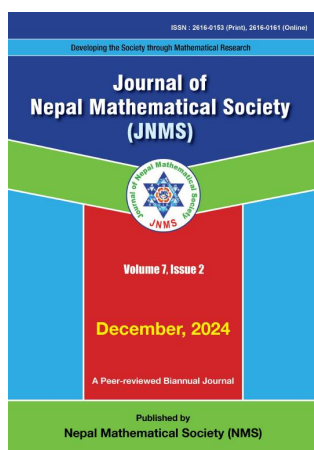
Prof. Dr. Jorge Mozo Fernandez, Professor at the University of Valladolid, Spain, and Secretary of CIMPA delivered an engaging lecture on the topic "*Divergent Series and Differential Equations*." The event was attended by over 120 mathematicians. Assoc. Prof. Dr. Shree Ram Khadka, President of NMS, presented Dr. Fernandez with a token of appreciation. The Head of



CDM, Prof. Dr. Chet Raj Bhatt, extended heartfelt thanks on behalf of both NMS and CDM, expressing hopes for continued research collaborations to advance mathematics in Nepal. The Nepal Mathematical Society awarded Prof. Dr. Jorge Mozo Fernandez the honorary membership of NMS.



Publication of JNMS 7(1) and 7(2)



Nepal Mathematical Society published its official journal - Journal of Nepal Mathematical Society (JNMS) (<https://www.journal.nms.org.np/view-articles.html>) Volume 7 Issue 1 on July 03, 2024 and Volume 7 Issue 2 on December 29, 2024.

Mathematics in the Street

The *Mathematics in the Street* program, celebrated globally on the occasion of International Mathematics Day, has been organized by the Nepal Mathematical Society at 18 different locations across the country, including four within the Kathmandu Valley.

The program featured a variety of games based on fundamental mathematical concepts, with participants ranging in age from 7 to 87.

The main goal of the program is to convey the message that mathematics is not just a subject to be studied in a closed room, but one that can also be expressed as an art form through games and creative activities.





NMS Picnic at Naikap

NMS organized a day-long picnic at Goodwill Green Resort Naikap on Chaitra 2, 2081 (15 March 2025). Refraining from daily routines, more than 120 NMS life members enjoyed various entertainment activities including dance, musical chair, *ghaito phutaune*, and *dohori*. The event brought various generations of mathematicians together.



Activities of NMS Life Members

New Responsibilities, Appointments, and Promotions

Dr. Janata Raut

- Appointed as an Assistant Campus Chief of Thakur Ram Multiple Campus, Tribhuvan University, Birgunj.

Prof. Dr. Chet Raj Bhatta

- Appointed as a Faculty Board member of IoST, TU, on June 22, 2024
- Appointed as Research Committee members of Institute of Science and Technology, TU on January 08, 2025

Dr. Ramesh Gautam

- Appointed as an Assistant Campus Chief of Ratna Rajya Multiple Campus, Tribhuvan University, Kathmandu

Retirements

- Prof. Dr. Keshar Singh Rana, Mid-Western University, Surkhet (Jeshtha 15, 2081)
- Associate Prof. Bamdev Jha, T.U. Tri-Chandra Multiple Campus, Kathmandu (Shravan 7, 2081)
- Prof. Ram Bishwash Prasad Shah, T.U. Bhaktapur Multiple Campus, Bhaktapur (Kartik 6, 2081)
- Associate Prof. Bholanath Bhattarai, T.U. Mahendraratna Campus, Tahachal (Mangsir 10, 2081)

Awards

Brinda Devi Shakya has been awarded Tirthananda Bidya Memorial Life Time Achievement Award.



Award of PhD Degree in Mathematics

Dev Chandra Shrestha: *A Mathematical Study of Temperature Distribution in Human Dermal Parts During Physical Exercises and Sarcopenia*
Kathmandu University, 2024



Ramesh Gautam: *Modeling and Analysis of Dynamics of Malaria Transmission with Control Measures: Imported Cases*
Tribhuvan University,

Anjana Pokharel: *Dynamics of Transmission and Control of Measles*

Tribhuvan University, 2024



Nabaraj Adhikari: *On Investigation of Complex Dynamics of Crip and Fuzzy Fractal Using Iterative Method*
Thammasat University,
Thailand, 2024

Bharat Raj Wagle: *Performance Analysis of Closed Queueing Networks System*

Kathmandu University, 2024



Hem Raj Pandey: *Modeling of Dengue Disease Transmission Dynamics in Nepal: A Fractional Derivative Approach*
Kathmandu University, 2024

Rajendra Pant: *Residual Power Series Method for Solution of Fractional Differential Equations*
Lovely Professional University,
Punjab, India, 2024



Abatar Subedi: *Existence of Associated Prime Ideals and Exact Zero Divisors in Commutative Algebra*
Tribhuvan University, 2024



Ramesh Prasad Awasthi: *Mathematics Assessment in Nepal with Reference to Oriental Tradition*
Nepal Sanskrit University, 2024

Shree Prasad Ghimire: *Cognitive Construction in Geometry through Information Communication Technology*
Tribhuvan University, 2024



Krishna Chandra Paudel: *Mathematics Anxiety of Secondary Level Students: Interpersonal Perspective*
Tribhuvan University, 2024

Loknath Bhattarai: *Teachers' Experiences and Students' Perceptions of ICT Integrated Pedagogical Practices in Higher Education Mathematics*
Tribhuvan University, 2024



Jagat Krishna Pokharel: *The study of Generalized Sequences and Functions Through the Summability Method*
Tribhuvan University, 2025

Raj Kumar Pradhan: *Mathematical Modeling of Mixed Traffic Flow and Impacts of Interactions at Non-Signalized Intersections*
Kathmandu University, 2025



Kumar Subedi: *Fixed Point Results in Dislocated Metric Space and Interrelationships of Fixed Point with Yoga*
Nepal Sanskrit University, 2025

Anil Chandra Jha: *The Role of Bhaskaracharya in Chronological Development of Mathematics*
Nepal Sanskrit University, 2025



Academic Activities

Prof. Dr. Kanhaiya Jha

- Delivered a talk on On K-compatibility and some common fixed point results in the 90th Annual Conference of Indian Mathematical Society: An International Meet, organized by the Department of Mathematics and Statistics, MIT World Peace University, Pune, India from December 23 – 26, 2024.
- Delivered an Invited talk on “On some fixed point results with compatibility” in an International Conference (in the memory of Late Prof. S.L. Singh) on Nonlinear Analysis and Applications (ICNAA 2024); Symposium on Ancient Indian Mathematics organized by the Department of Mathematics, Pt.. L. M. S. Campus, Sei Dev Suman Uttarakhand University, Rishikesh, Uttarakhand, India from May 10 – 12, 2024.
- Visited the Indian Institute of Technology, Roorkee (IITR) from May 8 – 9, 2024 and interacted with the HOD Prof. Maheshanand of the Department of Mathematics about the mathematics programs, its global structures, updated evaluation scheme relative to Indian Education Policy 2020 and gave a talk on “On some Recent Developments of Metric Fixed Point Results” to the faculties and the graduate students of the department on May 09, 2024.
- Delivered a Keynote speech on “On some classical metric common fixed point results” in an International Conference on Emerging Role of Mathematics in Science & Technology (ICERMST 2024) organized by the Department of Mathematics in collaboration with IQAC Jawaharlal Nehru College under Gauhati University, Boko, Assam, India from October 24 – 26, 2024.
- Delivered an invited talk on “On some developments of metric fixed point results” in an International Conference on Pure, Applied & Engineering Mathematical Science (ICPAEMS 2024) (Hybrid Mode) organized by Department of Mathematics, Andhra University and Uttara Andhra Society of Mathematical Sciences (UASMS) from March 30 – 31, 2024.

Prof. Dr. Chet Raj Bhatta

- Visited Sichuwan Province & Beijing under the invitation of International Department of IDCPC, China during February 25 - March 05, 2025.

Dr. Shree Ram Khadka

- Delivered an invited talk on *Optimization: Challenges and Way Forward* in National Conference on data and computing (NCDC 2024) held in Kathmandu University on October 4 - 5, 2024.
- Delivered a talk on *Pi Math and Application* held in Imperial World School on March 16, 2025.
- Participated in outreach program at Prithvi Narayan Campus, Patan Multiple Campus, Amrit Campus, Padma Kanya Campus, and St. Xavier College in different dates.

Dr. Saraswati Acharya

- Organized the National Conference on data and computing (NCDC 2024), taking role as program coordinator, from 4 to 5 October 2024. (<https://ncdc2024.ku.edu.np/index.php/committee/>)
- Visited Cologne University of Applied Sciences from 10 to 14 December 2024 in Cologne, Germany for a Lecture Exchange Visit funded by the German Academic Exchange Service (DAAD).
- Received travel support, funded by the Simon Foundation to attend the ICM2026, which will be held from July 23, 2026, to July 30, 2026, at Pennsylvania, USA.

Dr. Kharika Devi Parajuli

- Key person in the Tuxo panel discussion on the topic “Internal Labor Market: Opportunities and Challenges,” conducted by the Ministry of Social Development and Health, Gandaki Province, and Pokhara Metropolitan City, during the Second Career Counseling and Employment Fair 2081, held from Baisakh 10-12, 2081 at Pokhara Auditorium.
- Conducted an international Talk Series, as the President of the Centre for Innovation Research Development and Training (CIRDT), and delivered a talk from Nepal side on *STEAM Education Perspective from Ethno and Ethno-modeling: Connecting Hindu Cultural Ritual Pooja* on May 25, 2024.
- Participated and presented a poster entitled *Mathematics Practices Through Ethnomodeling on Nepali Dhaka Industries Patterns* in the Indian

Women and Mathematics (IWM) Annual Conference from July 11-13, 2024, at BITS Pilani K K Birla Goa Campus, India.

- Participated in the 4th International Conference on Global Innovations in Management and Social Sciences, themed “Imparting Dynamic,” held on 29th and 30th November 2024, organized by the Research and Development Department at Lumbini Banijya Campus, Nepal and presented a paper on the topic *Embodied and Visualisation of Mathematics in Changu Narayan Temple Arts of Nepal*.

Dr. Sharmila Shrestha

- Delivered a Motivational Talk to secondary level students on *Unlocking Future Horizons Through Mathematics* at Pragati Shiksha Sadan Secondary School, on 19 July, 2024.
- Delivered a Motivational Talk on *Empowerment Through Mathematics: Creating Opportunities* at Madan Smarak Secondary School on 12 May, 2024.

Dr. Dirgha Raj Joshi

- Participated in TU-TESOL International Conference entitled Teachers Engagement in Innovative Pedagogy: Embracing Context, Creativity, and Criticality in TESOL organized by Mahendra Ratna Campus, Tahachal, Tribhuvan University Nepal and presented on the topic: *Role of Using ICT in Shaping Language and Numeracy Learning: Message from PISA Data* on February 01-02, 2025.
- Participated in Multidisciplinary International Seminar entitled “Science, Technology, Social Science in Vedas and other Philosophies” organized by C. M. (Chandradhari Mithila) Science College, Darbhanga, Bihar (Lalit Narayan Mithila University, Darbhanga) India and delivered a Keynote speech on Digital Technology and Research: Key Skills and Practices) on 19-20 Dec., 2024.
- Participated in the National Conference in Ethnomathematics organized by Mahendra Ratna Campus, Tahachal, Tribhuvan University Nepal and presented a paper entitled *Role of digital technology to promote ethnomathematics* on 8 - 9 Nov. 2024.

Dr. Raj Kumar Pradhan

- Participated and presented paper in Second International Conference on Mathematics and Applications (ICMA-2024) December 13-15, 2024

entitled *Mathematical Study of Impact of Non-signalized Road Crossing on Vehicular Emissions and Fuel Consumption*.

Pushpa Nidhi Gautam

- Presented on the topic *Modeling Blood Flow Dynamics Through Curved Artery with Mild Stenosis* in the Second International Conference on Recent Advances on Applied Mathematics (RAAM-2024), (July 3-5, 2024), at IIT BHU Varanasi, India.
- Presented on the topic *Effect of Timely Increasing Stenosis in a Two-Layered Model* at the International Conference on Mathematical Analysis and Applications on Modeling (ICMAAM-2024), (December 5-7, 2024) organized by the Department of Mathematics, CUET, Bangladesh.
- Presented on the topic *Hemodynamics in a Curved Artery with Mild Stenosis Increasing Over Time* in the Eighth India Biodiversity Meet-2025, (March 24-26, 2025), Organized by Agricultural and Ecological Research Unit and Biological Anthropology Unit, IIT, Kolkata India.

Durga Prasad Khanal

- Presented paper at “3rd International Conference on Applied Mathematics in Science and Engineering (AMSE-2024)”, Bhubaneswar, India (25 - 27 Jul 2024). Title: “Maximum Dynamic Contraflow with Intermediate Storage by Antiparallel Path Decomposition”.
- Participated in “Workshop on Operations Research in Health Care - Modelling and Implementation in Python”, Kathmandu, in cooperation with “The Alexander von Humboldt (AvH) Foundation” (24 Math - 3 April, 2025).

Publications

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Provincial Activities

Gandaki Province

Mini-Research Presentation Program

Two research scholars who were selected last year for the mini-research grant provided by the Nepal Mathematical Society-Gandaki successfully completed their final research presentations on 2081-12-28 B.S. The program was organized in the seminar hall of the Department of Mathematics, Prithvi Narayan Campus.

Madhav Prasad Paudel and Badri Prasad Pageni presented their research entitled "*Heat Transfer Effect on Velocity of Fluid in a Pipe with Laminar Flow*" and " *q -Calculus in Cost Optimization Flow Model*" respectively. The event was chaired by the society's president, Associate Prof. Dr. Tribhuwan Sharma, and subject expert Associate Prof. Dr. Ishwar Mani Adhikari provided commentary on the presentations.

The program was hosted by the secretary, Bishwaraj Adhikari, and was attended by former department head Rajendra Regmi along with several other faculty members. Students from B.Sc. 3rd and 4th years and B.Ed. 4th year from Prithvi Narayan Campus also participated significantly in the event.



Mathematics in the Street Program

The "Mathematics in the Street" program was held on Sunday, 2081-12-03 B.S. at Prithvi Chowk, Pokhara, organized by the Nepal Mathematical Society Gandaki Provincial Committee. The event was chaired by Dr. Tribhuwan Sharma, President of the Province committee of NMS, and the chief guest was Dhan Raj Acharya, Mayor of Pokhara Metropolitan City.

Notable attendees included Dr. Ishwar Mani Adhikari, Head of the Department at Prithvi Narayan Campus; former department head Rajendra Regmi; and Ved Sharma, President of the Council for Mathematics Education - Gandaki Province. The program was moderated by Bishwaraj Adhikari.



The event was coordinated by Bhadraraj Tripathi, with support from Thakur Pokhrel and Madhav Prasad Paudel. Volunteers included B. Ed. 4th year students from T. U. Prithvi Narayan Campus, and students from Baloday School and Gandaki Adarsha School, all of whom received certificates of participation.



On the same occasion, students from Pokhara's Motherland and Golden Nature Schools also celebrated Mathematics in the Street by organizing various math-related games.



Picnic Program

The Nepal Mathematical Society Gandaki Provincial Committee successfully organized a grand picnic event on Wednesday, 2081-10-17 B.S. at Dhampus Resort, Dhampus.

Far Western Province

1. A one day interaction program was on "Current situation of Mathematics Education and its challenges in School and university Level" on the occasion of international Mathematics day on 14 March.
2. A two-day workshop on "Item Construction" for secondary school teachers was conducted from 2081 Magha 21 and 22. The NMS province committee president and other members were facilitators, and about 30 participants from different schools participated in the program.
3. A one-day secondary school teachers interaction program on specification grid and curriculum of grades 11 and 12 on 24 Chaitra 2081 at Hotel Temple Resort Dhangadhi. Thirty maths teachers from different schools were present in the program. Mr Raghu Bir Bhatta and Krishanana Singh Pela were facilitators of the program.
4. Project work writing program for B.Sc. students was conducted at Aishwarya Multiple Campus on 5th Mangsir 2081.
5. Mathematics in the Street program was conducted on 3rd Chaitra 2081.
6. Mathematics quiz competition program was conducted among students of Secondary level on 20th Falgun 2081.

Lumbini Province

Nepal Mathematical Society, Lumbini Province Committee has conducted a province level battle of mathematical MCQ for grade 10 students on Bhadra 8,

2081 at Oxford Secondary School, Butwal. More than 100 students from different schools were actively involved in the program in chairmanship of province president Mr. Gopal Parsad Acharya. Cash prize of Rs. 10000, Rs. 8000, Rs. 5000 and Rs. 1000 was distributed as up to top ten students. The program was coordinated by province secretary Mr. Thanshwor Bhandari with technical support of Mr. Dipak Gyawali, the treasurer of the province committee. There was a valuable presence of the advisors of the province committee Amerendra Kumar Singh, Shesh Raj Bhat-tarai, Tulsi Prasad Sapkota and Dinesh Bhushal, the president of HISAN, Rupandehi. On the same program, vice-president of province committee Pitamber Tiwari was honored for his PhD in mathematics. Token of love was distributed to the advising committee members.

Mathematics in the Street

The event "Mathematics in the Street" was held on 3 Chaitra, 2081 in Jesis Chok, Butwal from 4 - 6 pm in the chairmanship of NMS-Butwal province president Mr. Gopal Parsad Acharya. On this program people in the street and students of different schools participated actively. Different mathematical activities were performed which arose the interest of mathematics in the common people also. Nearly 80 participants were involved with the utmost interest in mathematics. Mr. Deepak Gyawali, the treasurer of the province committee facilitated the program. Advisors, province committee members, teachers of different schools and colleges were also present at the event. Among the invitees were Gopal Bashyal, President of Rupandehi Book Association and Mr. Raju Sharma, Proprietor of Gyalixy Book Center. The purpose of the program was to connect the mathematical ideas with real life problems of the common people.



Prof. Dr. Hari Prasad Upadhyay

“Teaching without research (innovation) has no meaning.”

Prof. Dr. Hari Prasad Upadhyay is, currently, Chairperson of Mathematics Education Subject Committee, Curriculum Development Center under the Ministry of Education, Science and Technology, Nepal. Born in 5th January 1955, Prof. Upadhyay has served as a Professor of Mathematics Education at Faculty of Education, Tribhuvan University. He has already supervised 10 PhD students and 4 students are currently pursuing PhD under his supervision.

He has also been a supervisor of more than 100 students in their Master's thesis. He has published several mathematics textbooks of school level to university level. He has also served as Chairman of the Mathematics Subject Committee, Education Review Office and a member of Mathematics Subject Committee at Higher Secondary Education Board. He is a founder member and working President of Nepal Mathematics Center, Kathmandu. He is a life member of Council for Mathematics Education, Kathmandu and has also served as a Vice President there. As a life member of Nepal Mathematical Society, he has served as an Executive Committee member from 1990 to 1992. We have a privilege to have a conversation with Prof. Upadhyay, in which we explore his journey from classroom instruction to educational leadership, and the enduring legacy he continues to build.



Would you share with us about your interest in Mathematics at your school and university level?

Very short and quick answer is marks obtained in earlier grade in schooling period. I usually feel comfortable with learning/doing Mathematics since I usually get 99 marks out of hundred. Mathematics Teacher always encourage me to solve problem at the blackboard. So, I presume, my self-confidence and motivation as well as my school level teacher's initiation/appreciation were major factors that let my interest grew in Mathematics in the later years.

How did you get the opportunity for PhD at Panjab University, India? Could you please share the best and the worst times during the PhD Journey? Moreover, would you share with us about your experience on the work of supervision of your PhD students?

In those days, most of our PhD-holder teachers were graduated (PhD) either from India or from abroad. On the provision of the Faculty Development Program, we both, me and my school classmate, Pradeep Chandra Gautam applied for scholarship and got a chance for PhD from Rector office, Tribhuvan University, Kirtipur. We both hunted for higher education (PhD) in different Universities of India. Lastly our teachers Prof Dr Kedar Man Shrestha and

Prof. Dr. Sundar Shyam Bhakta Mathema recommended us for Panjab University, Panjab, India, which is a renowned University.

✓ **About climate:** At the outset of our PhD journey, the best time was winter when we both enjoyed, roaming around the planned city Chandigarh, Panjab. The worst time was during summer since it was very hot and very difficult to stay there. Another frustrating thing was food culture, very hot that did not suit us.

✓ **About Academic:** Since we both have good grades in Master's degree, we were enrolled easily in the University. Our supervisor was very helpful, library/accommodation facilities were also good to study there. Proposal writing phase was taxing. As time passed, we got through the difficult task of proposal writing as our professor approved our titles of PhD research.

Would you share with us about your experiences at the Department of Mathematics Education at different responsibilities?

• I had been heavily involved in teaching and taking responsibilities of HoD, Chairperson of Mathematics and Computer Science Education Subject Committee in TU. Every teacher should abide with ethical/moral issues and responsibility of teaching. As a teacher, I enjoyed teaching for more than 4 decades. I started teaching from Dhankuta Multiple Campus and got a

transfer to Birgunj after getting permanent post, then to Mahendra Ratna Campus, Tahachal, and finally to University Campus, TU, Kirtipur. I think I was a good teacher and always tried to become a better teacher. It will be an exaggeration if any teacher considers himself as the best experienced and complete teacher. I had to take both responsibilities simultaneously of HoD and Subject committee chairperson during the same period. As an HoD, I loved my colleagues, stayed most of time in the Department on my chair along with my subordinates. I usually tried to bring our retired professor as an expert in the occasional talk program, and MEd thesis viva in Department meeting. During my tenure, the number of students is very big. As a Chairperson of Mathematics & computer science Subject Committee, I took care of my faculties and subjects' improvement. As a Supervisor, I supervised many M Ed students, and some Mphil and PhD scholars. Some of them were very encouraging and some of them were stubborn. In both cases, my role was to abide with my ethics (legal) and moral (Self conscience) issues.

 Would you share with us about experiences during your time as different responsibilities of different organization of Mathematics?

 In Professional Organizations: I am involved as a life member in different professional organizations: Nepal Mathematics Society, Council for Mathematics Education, Nepal Mathematics centre. Few years back, I was a vice-president of Council for Mathematics Education and at present, I am Chairperson of Nepal Mathematics Centre. I regularly participate in all activities and try to proliferate the spirit and policies of professional organizations.

✓ In CDC: At present, I am a Chairperson of Mathematics Education Subject Committee in CDC MoES, Sanothimi. I try to recommend and involve many experienced school teachers and professors while organizing meeting to prepare curriculum, textbooks' revision, teacher's guide of school levels.

 How do you balance teaching, research and family life and what is secret behind to be still active in retired time?

 I think, teaching and research are intertwined concept. So, there must be some concepts that can be interface between teaching and research. Teaching without research (innovation) has no meaning, neither a teacher enjoys nor students take any benefit. A very popular proverb from Latin language "Docendo discimus" meaning that the act of teaching teaches you. Many intricacies/difficulties in course becomes clear while we involved in teaching. These days, teachers do many action researches to improve their classroom practices. How I balanced my day-to-day timetable is a very import query. It is the enthusiasm to make our mathematics education

better is the open-secret of activeness in my retired life. With many students, I had to spent more time in the Department and in the responsibility of Subject committee chairperson. As I recapitulate the time of past days, I accept that I did not do justice with my families. I now recommend to all teachers and professors that family life is very important. We must take care of it and strive to maintain a balance between our professional and family lives.

 As an active person in mathematics education field, how do you motivate your students in mathematics education? Moreover, would you please suggest on the domain of mathematics teaching to the mathematics teacher any strategies who have not been trained with teaching strategies but are involved in teaching?

 Very short and quick answer is intrinsic motivation to get good job opportunity in teaching. We are privileged to motivate our students since good number of seats are available each year in the post of mathematics teachers at school levels. I want to suggest few strategies to make students creative: Let student teach their peer, give responsibility to them, let them reason and respect their answers, use knowledge of historical development of mathematical contents at least at school levels.

 It is a reality that the enrollment of students in Mathematics is declining day-by-day in University. How is possible to improve the situation?

 Despite Mathematics being the most valuable subject, a natural query arises: why has enrollment in Mathematics been decreasing at the university level? The second query seems to me as the crux of problem. To answer it, a rigorous research endeavor is required. A short, quick and easy answer is the smaller number of students take mathematics as a major subject in school and at undergraduate levels. If we delve deep into past and hear public concerns like: the course load, in each level, is too heavy, students do not get any time for creativity, teachers are not competent, and many more. What could be possible way forward to resolve above concerns? We all Math-teachers agree that every problem has some solutions. Our professional organizations should meet together and find way out to resolve above concerns and improve the status of Mathematics Education.

Prof. Uma Nath Pandey

Prof. Uma Nath Pandey was born on 8 Chaitra 2016 BS in Kerunga Dharampani, Ward No. 4, Chhatradev Municipality, Arghakhanchi district, Lumbini. Currently, he lives in Kirtipur Ward No. 4, Kathmandu district of Bagmati province.

Education

Prof. Pandey passed SLC in 2032 B.S. He passed I. Ed. in 2037 B.S. from Prithvi Narayan Campus, Pokhara. He passed B. Ed. in 2043 B.S. and M.A. in 2045 from Tribhuvan University, Kirtipur, Kathmandu with Mathematics as a major subject from school level to the university level.

Teaching Experience

Prof. Pandey started working as a primary school Mathematics teacher on 2033 B.S. In 2039, he was appointed as a lower secondary level mathematics teacher. In 2046, he started his career in Tribhuvan University as an Assistant Lecturer at the University Campus, Kirtipur. In 2049, he was transferred to Mahendra Ratna Campus Tahachal and worked there until the time of his retirement. He has provided his service to mathematics for 46 years out of which he has served Tribhuvan University for 34 years in Tribhuvan University. He has taught students of almost all levels of students from school to master's level. He has also supervised many students in thesis writing and research paper writing.

Involvement in Curriculum Design and Evaluation

He has been involved in Curriculum Development Center as a textbook writer of mathematics in various levels. He was a chairman of the mathematics subject committee in the Faculty of Education, Tribhuvan University and was involved in the design of curriculum of mathematics of bachelor's and master's level under FOE. He has also visited Naruto University Japan to share his experience with the faculty members and school teachers around this university as an integrated mathematics textbook writer of Curriculum Development Center Sanothimi Bhaktapur conducted by JICA Nepal.



Publications

More than 40 books on mathematics from school level to university level authored by Prof. Pandey have been published as textbooks and reference books. Some of his books serve as self-help materials for the examinations conducted by Teachers Service Commission Nepal.

He has also contributed to more than 10 research articles and 15 general articles published in different journals.

Memberships

Prof. Uma Nath Panda has been an active member of Nepal Mathematics Center, Nepal Mathematical Society and Council for Mathematics Education. At present, he is working as the Vice President of Council For Mathematics Education, National Committee.

Prof. Ram Bishwash Prasad Shah

Prof. Ram Bishwash Prasad Shah was born on 22nd October 1961 (6th Kartik 2018 B.S.) at Pothiahee VDC Ward No. 7 (Garuda Municipality, Ward No. 6) of Rautahat district. His father was Nanipat Shah Kanu and mother was Ram Somari Devi Shah, He has been married to Jaykala Devi Shah in 30th Falgun 2030 B.S. They have two sons Dr. Roshan Kumar Shah, Er. Ranjan Shah and a daughter Pratima Kumari Shah. Dr. Roshan Kumar Shah works as a medical doctor in Copenhagen, Denmark. Er. Ranjan Shah works as a Bio-medical Engineer in Sahid Ganga Lal Heart Transplant Centre, Bhaktapur and Pratima Shah works as a co-ordinator of primary section in Trilochan Academy, Lalitpur. Prof. Shah resides, presently, in Katunje, Bhaktapur.

Education

Prof. Shah passed his S.L.C. from Sri Jay Kisan High School Dharahari, Rautahat in 1979 AD, I. Sc. from L. K. College, Sitamarhi (University of Bihar, India) in 1981, B.Sc. from R. K. Goenka College Sitamarhi, India, in 1983 and M.Sc. from the Central Department of Mathematics, Tribhuvan University, Kirtipur in 1985 AD.

Professional Experience

Prof. Shah joined Bhaktapur Multiple Campus, Tribhuvan University as an Assistant Lecturer on 21st Mangsir 2044. He was promoted to Lecturer in 2047, Associate Professor in 2066, and Professor in 2072 B.S. He was actively involved in teaching mathematics in graduate level and has taken part in various trainings, e.g. Workshop on Teaching Mathematics at Undergraduate Level organized by Tribhuvan University and Central Department of Mathematics, Refresher Training Program for B.A./B.Sc. organized by Tribhuvan University, University Grants Commission, and Central Department of Mathematics. He has worked as a Head of Department of Mathematics from 2072 to 2081 B.S. (until his retirement) at Bhaktapur Multiple Campus. He was also a member of Mathematics Subject Committee under Institute of Science and Technology (Tribhuvan University). He initiated to publish different journals and articles. He has been popular due to his punctuality and honesty



among the students, colleagues and administrative staffs. He has retired from Tribhuvan University service on 6th Kartik 2081 B.S.

Publications

Prof. Shah has published many books and articles. A few of them are: A Text Book of Advanced Calculus, Concept of vectors, Statics, Comprehensive Mathematics, Maths for Competitive Examinations, Composite Mathematics for Health Sciences, Business Mathematics, Problems in Dynamics and Statics.

Membership

He is an active life member of Nepal Mathematical Society.

Languages

Besides Nepali, Prof. Ram Bishwash Prasad Shah is proficient in English, Hindi, Bhojpuri, and Maithali languages.



