



St. Xavier's College

Dr. Camil Bulcke Path, Ranchi

Faculty Profile

Name of Faculty Member	:	Dr. Fr. Ajay Minj
Gender	:	Male
Email ID	:	frajay@sxcran.org
Name of Department	:	Department of Mathematics
Designation	:	Assistant Professor
Level of Teaching	:	Undergraduate and Postgraduate
Academic Qualification	:	M.Sc., Ph.D.
Total Teaching Experience	:	6 Years and 8 Months
UGC NET/SET Qualified	:	No

Research Papers Published:

- 1) Ajay Minj, T. Pathinathan, **Ranking and Similarity Measures of Interval-Valued Pentagonal Fuzzy Numbers**, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8 (4), **2019**, pp. 9314-9320.
- 2) Ajay Minj, T. Pathinathan, RETReAT: **Fuzzy Multi-Criteria Decision Making Based on Pros and Cons**, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8 (2), **2019**, pp. 6072-6079.
- 3) Minj Ajay, T. Pathinathan, **Interval Type-2 Pentagonal Fuzzy Number and Its Ranking**, Journal of Applied Science and Computations, Vol. 6 (5), **2019**, pp. 218-230.
- 4) Pathinathan T., Ajay Minj, **Symmetric Pentagonal Intuitionistic Fuzzy Number**, International Journal of Current Advanced Research, ISSN: O: 2319-6475, ISSN: P: 2319- 6505, Vol. 7 (1), **2018**, pp.10-15.
- 5) Pathinathan T., Ajay Minj, **Interval-Valued Pentagonal Fuzzy Numbers**, International Journal of Pure and Applied Mathematics, Vol. 119 (9), **2018**, pp.177-187.

- 6) T. Pathinathan, Ajay Minj, **Fuzzy Multi-Criteria Decision Making Based on Ignatian Discernment Process**, International Journal of Computer and Information Engineering, Vol. 12 (5), **2018**, pp. 355-364.
- 7) Ajay Minj, Pathinathan T., **Totally Symmetric Type-2 Triangular Fuzzy Numbers**, Journal of Computer and Mathematical Sciences, Vol. 9 (11), **2018**, pp. 1717-1727.

Participation in UGC-HRDC Course/FDP/OC/RC:

- 1) Participated in the **Five-days International Webinar** on 'Recent Trends in Interdisciplinary Research and Complex Global Challenges', organized by St. Xavier's College, Mahuatnir in collaboration with IQAC, held from 20th -24th January, 2025.
- 2) **Faculty Development Program** on Exploring New Horizons in Mathematical Research organized by the PG and Research Development of Mathematics, V.O. Chidambaram College, Thoothukudi from 19th August – 24th August 2024.
- 3) **Chaplains and Animators Formation and Wxchange (CAFÉ) Program 2024** on the theme 'Mission of Student's Accompaniment' on the date 1st – 6th July 2024, organized at International Youth Training Centre (IYTC), Chiangmai, Thailand, by IMCS Pax Romana – Asia Pacific.
- 4) **Workshop cum Training Program** on Revitalizing Student Accompaniment for Social Spiritual and mental well-being of youth on the date 1st – 4th February 2024 at Xavier Institute of Management Bhubaneshwer (XIMB), Orissa.
- 5) **Faculty Induction Programme (FIP)** organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teaching and Teaching in collaboration with Khalsa College Amritsar during 19th July - 17th August, **2021** and obtained **Grade A+**.
- 6) Faculty Development Programme organized by Department of Geography, St. Xavier's College, Ranchi from 12th April to 18th April **2021**.
- 7) **Global Initiative of Academic Networks (GIAN)** course entitled "**Fuzzy Techniques for Intelligent Decision Making**", during December 11th–15th **2017**; organized by Department of Mathematics, IIT, Patna and sponsored by Ministry of Human Resource Development Government of India.
- 8) **Global Initiative of Academic Networks (GIAN)** course entitled "**Insights into Fuzzy Modelling: Reasoning in Fuzzy Natural Logic and its Applications**", during October 23rd–27th **2017**; organized by Department of Mathematics, IIT,

Dhanbad and sponsored by Ministry of Human Resource Development Government of India.

- 9) **Two-Days Hands on Workshop** on Machine Learning with R and LATEX at Loyola College, Chennai on 15th and 16th July 2017.

Paper Presented (National/International Seminar/Conference):

- 1) Presented and participated a paper titled **“Totally Symmetric Type-2 Triangular Fuzzy Numbers”** in the national Conference on Recent Trends in Fuzzy Mathematics & Its Applications (NCRTFMA - 2018), conducted at SRM Institute of Science and Technology, Ramapuram, Chennai, Tamilnadu during 26th and 27th of October, **2018**.
- 2) Presented and participated a paper titled **“Fuzzy Multi-Criteria Decision Making Based on Ignatian Discernment Process”** in the International Conference on Fuzzy Systems and Neural Computing (ICFSNC 2018), organized by World Academy of Science, Engineering and Technology (WASET) at Berlin, Germany during 21st and 22nd May, **2018**.
- 3) Presented and participated a paper titled **“Symmetric Pentagonal Intuitionistic Fuzzy Number”** in the international Conference on intuitionistic Fuzzy Sets and Their Applications conducted at Islamiah College (Autonomous), Vaniyambadi, Tamilnadu during 10th and 11th of January, **2018**.
- 4) Presented and participated a paper titled **“Inter-Valued Pentagonal Fuzzy Numbers”** in the National Conference on Recent Trends in Fuzzy Mathematics & its Applications (NCRTFMA-2017) conducted at SRM University, Ramapuram, Chennai, Tamilnadu during 3rd and 4th of November, **2017**.

Seminar/Conference/Workshop (National/International) Participated:

- 1) Participated in the JHEASA Annual Conference 2025 on **‘Reimagining and Reconstructing Jesuit Higher Education in South Asia’**, held at St. Xavier’s College, Ranchi from 26th -28th January, 2025.
- 2) International Workshop organized at Xavier’s Institute of Management, Bhubaneswar held from 1st February to 4th February, **2024**.
- 3) Online workshop on **“Advanced Artificial Intelligence Tools for Teachers”** organized by IGNITE Life Skill Academy, Sacred Heart College, Thevara, Kochi - 13 on 10th September, **2023**.

- 4) National Seminar on **NEP 2020 Impact on Higher Education** by Skill State Foundation, Pune in association with Nishitha Degree College, Nizamabad, Telangana on 19th February, **2022**.
- 5) Special Lecture Series on **Interdisciplinary Research Projects** organized by Loyola – Racine Research Institute of Mathematics and Computing Sciences (LIMCOS) at Loyola College, Chennai on 21, 26, 28 and 29 August **2019**.
- 6) Zetesis Seminar Series 1 on **Consciousness: Multi-Dimensional Perspectives** organized by Satya Nilayam Institute of Philosophy and Culture on 29th March, **2019**.
- 7) National Conference on **Mathematical Approach to De-Fuzzify the World and fuzzy Concepts** organized by the Department of Mathematics, Loyola College, Vettavalam on 23rd February 2018.
- 8) Two-Day Hands-on Workshop on **Machine Learning with R and LATEX** at Loyola College Chennai-34 on 15th and 16th July, **2017**.
- 9) International Conference on **Recent Trends in Mathematics (ICRTM-2017)** organized by PG and Research Department of Mathematics Loyola College, Chennai-34 on 7th March, **2017**.
- 10) National Seminar on **Recent Advantages in Differential Equations and its Applications** organized by Department of Mathematics at Meenakshi College for Women, Kodambakkam, Chennai on 3rd and 4th February, **2017**.
- 11) International Symposium on **The Discovery of Gravitational Waves and the Future of Religion and Society**, organized by Indian Institute of Science and Religion (IISR) and JDV Centre for Science and Religion Studies (JCSR), on 20-23 January, **2017** at Jnana Deepa Vidyapeeth (JDV), Pune.
- 12) Workshop on **Research Methodology** held from 9th to 13th December, **2016**, organized by the Dean of Research and Loyola Institute of Social Science Training and Research (LISSTAR) at Loyola College, Chennai.
- 13) State level Workshop on **Statistical Package for the Social Sciences (SPSS)** held during November 18 and 19, **2016** at Loyola College of Education, Loyola College Campus Chennai-34, Tamilnadu.
- 14) National Conference on **Recent Trends in Applied Mathematics (NCRTAM-16)** conducted at St. Joseph's College of Arts and Science (Autonomous), Cuddalore, Tamilnadu during 22nd and 23rd July **2016**.

Chapter(s) in Book:

- 1) Ajay Minj "**Tribal Education: An Alternative System of Learning**", India's Indigenous Peoples: A Journey of Self-Reflection on Culture, Society and Sustainability Edited by Virginius Xaxa, Vincent Ekka, Anabel Benjamin Bara, Juhi Priyanka Horo, ISI Delhi.

Special Contribution:

- 1) Has been appointed as State Advisor of All India Catholic University Federation (AICUF) since 2021 till date.
- 2) Has organized five Annual State Camp for the Jharkhand State AICUF and accompanied them in various activities related to awareness and standing with the solidarity with the people's cause.

Special Lecture Delivered:

- 3) Delivered a lecture in Workshop on Mathematical Applications conducted at St. Joseph's College of Arts and Sciences (Autonomous), Cuddalore, Tamilnadu on 24th and 25th February 2017 on the topic "**Philosophy of Fuzzy Mathematics - A Concise Introduction of Applications**".

Scholarship Awarded:

- 1) Awarded with **Maulana Azad National fellowship (MANF)** for Minority in the year 2017-2018 for Ph.D. Research Works.

[Dr. Fr. Ajay Minj]