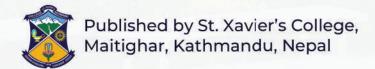
# SXC JOURNAL

Volume 2, 2025



### **Editor-in-Chief**

Fr. Dr. Augustine Thomas S.J.

St. Xavier's College, Maitighar, Kathmandu, Nepal

### **Associate Editor**

Dr. Mani M.S. Rajbhandari

St. Xavier's College, Maitighar, Kathmandu, Nepal

### Managing editor

Mr. Niraj Nakarmi

St. Xavier's College, Maitighar, Kathmandu, Nepal

### **Editorial Board**

Fr. Dr. Boby Joshep, S.J.

Loyola Campus, St. Xavier's College, Maitighar, Kathmandu, Nepal

Fr. Jiju Varghese, S.J.

St. Xavier's School, Deonia, Nepal

Professor Richard Callahan

University of San Francisco, USA

Fr. Dr. Vincent Braganza, S.J.

St. Xavier's College, Ahmedabad, India

Dr. Sony Shrestha

St. Xavier's College, Maitighar, Kathmandu, Nepal

Fr. Dr. Thomas J. E. Schwarz, S.J

Marquette University, USA

### **Graphic Designing**

Department of Communications and Branding

St. Xavier's College, Maitighar, Kathmandu, Nepal

# **Editorial**

Dear Reader,

The SXC Journal is pleased to announce the publication of Volume 2, 2025. We are also proud to share that the SXC Journal is now indexed in NepJol, a reputable and widely recognized global platform for journal indexing.

This volume includes articles from various departments, showcasing a multidisciplinary approach to knowledge accumulation and dissemination to readers around the world.

All articles published in the SXC Journal undergo blind peer review and are openly accessible to all readers. This volume features contributions from Management, Social Sciences, Computer Science, Biology, Economics, and other fields.

To broaden the reach of our published articles, the SXC Journal maintains the published version of each volume on the SXC website under the Research section. Additionally, to ensure wider accessibility, this volume is also available on the NepJol indexing platform.

We are now inviting submissions for Volume 3, 2026. We welcome high-quality articles that uphold rigorous academic standards. Submissions are open throughout the year, with no specific deadline.

We look forward to your submissions and to collaborating with you in advancing academic research.

Thank you very much.

Best regards,

Mani Man Singh Rajbhandari, PhD Associate Editor SXC Journal St. Xavier's College, Maitighar, Kathmandu, Nepal

## Table of content

Editorial Mani Man Singh Rajbhandari	
Impact of Digital Engagement on Mental Health and Neuroplastic Changes in Adults Fr. Augustine Thomas S.J., Isha Das and Pushpa Lal Shrestha	1
A study on marginalized women working in the carpet factories in Kathmandu Fr. Boby Joseph Thadathil, S.J.	21
Artificial Intelligence (AI) Shaping Organizational Culture and Climate over the Human Intelligent Minds (HIM): A Commentary  Mani Man Singh Rajbhandari	29
From Chaucer to the Restoration: A Comparative Analysis of Elizabethan Drama and Literature in the Artificial Intelligence Era  Prateet Baskota	35
Artificial Intelligence in English Language Learning: Exploring Personalised Learning for Generation Z Buddhi Laxmi Lakhe Shrestha and Rajan Karmacharya	49
Influence of Customer Quality Responsibility on Customer Acceptance and Assurance	58

Effect of concentration in two ion magnetized plasma sheath

Suman Amgain, Bijay Raj Neupane, Narendra Khadka, Smriti Baniya, Roshan Chalise and Hom Bahadur Baniya

Molecular detection of colistin resistant gene mcr-1 from Gram negative clinical isolates

Asmita Devkota, Anil Kumar Shah and Srijana Thapaliya

70

83

Leveraging the performance of Deep Learning Models for Corn Leaf Disease
Diagnosis using densenet201 and Xception
Rajan Karmacharya, Prashant Aryal and Prashant Giri

Burden of Antibiotic Resistance in Bloddstream Infections
Archana Adhikari, Ved Prakash Mishra and Pramila Parajuli

Antimicrobial Susceptibility Pattern of Bacterial Isolates from Raw and Frozen Chicken
Meat

109

Rhythm Upreti, Ritika Pandey, Sahasna Basnet, Prashanna K.C. and Angela Shrestha