

MANOJ SHAKYA

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Department of Computer Science & Engineering
School of Engineering, Kathmandu University
Dhulikhel, Kavre, Nepal
<http://ku.edu.np/cse/faculty/manoj>
manoj@ku.edu.np
(977) 9841 222 837

ACADEMIC POSITIONS

Kathmandu University, Department of Computer Science and Engineering

Assistant Professor, 2008–Present.

Teaching computer courses like Programming, Data Structures, Algorithm Complexity, and Operating Systems to graduate and undergraduate students; Supervise master thesis and undergraduate projects; Promote research activities in Kathmandu University.

<http://ku.edu.np/cse>

Javra Software Nepal

Software Developer/Trainer, 2006–2008.

Worked as a team leader in various projects; Provided training to new employees.

<http://www.javra.com>

Campion Kathmandu College

Lecturer, 2001–2003.

Teaching undergraduate students (BCA and BIT) and supervise them in their minor projects.

EDUCATION

ME (Computer Science and Technology), Hunan University, China, 2006.

Thesis Title: "Java Framework for Grid Computing".

CGPA = 3.73/4

BE (Computer Science and Engineering), Kathmandu University, Nepal, 2001.

Capstone Project: Auction based C2C and RFP based B2B

CGPA = 3.55/4

RESEARCH INTERESTS

Educational Technology, Learning Analytics, Online Learning, ICT in Education, Big Data and Cloud Computing, Machine Learning

PEER-REVIEWED PUBLICATIONS

1. Sangam Uprety and Manoj Shakya (2017). Role of Context Clue Sentences as Dictionary Examples. *The Journal of University Grants Commission* 6(1), 132–140.

GRANTS

1. Research Grant by Nepal Academy of Science and Technology (NAST), Nepal. 2017–2018, \$2,000.
2. Research Grant by International Development Research Center (IDRC), Canada FIT-ED, The Philippines. 2016–2017, \$30,000.
3. Workshop Grants from University Grants Commission, Nepal to organize 3-Day Workshop on Understanding Plagiarism. 2017, \$1,000.
4. Training Grants from University Grants Commission, Nepal to organize 3-Day training on Data Analysis Using R. 2016, \$1,000.
5. Training Grants from University Grants Commission, Nepal to organize 3-Day training on Entrepreneurship and Incubation. 2016, \$1,000.
6. Training Grants from University Grants Commission, Nepal to organize 3-Day training on Research Methodology. 2015, \$1,000
7. Training Grants from University Grants Commission, Nepal to organize 2-Day training on e-Learning Through Moodle. 2014, \$700.
8. Grant to establish Research Management Cell at School of Engineering Kathmandu University. Received from University Grants Commission, Nepal. 2012, \$10,000.

HONORS & AWARDS

Erasmus Mundus Scholarship (2 months), INTACT Project, Greece, 2014

Full Scholarship to participate in e-Learning Technology (45 days), Sri Lanka, 2009.

Third Position in Open Source Software Competition, 2009.

Chinese Government Scholarship for Master Program, 2003.

INVITED SEMINARS/WORKSHOPS/CONFERENCES

2018 Knowledge Enhancement Workshop. December 30-31, Chitwan, Nepal

- 2018 The Asia-Pacific Regional Seminar on MOOCs for Higher Education: Seizing digital opportunities to achieve SDG4 June 11–13. Shenzhen, China
- 2017 International Seminar on ICT enabled Teaching and Learning. October 11. Bhaktapur, Nepal
- 2017 Deerwalk institute of Technology. 2017. Kathmandu, Nepal
- 2010 Ace Institute of Management. 2010. Kathmandu, Nepal
- 2008 White House Education Network. 2008. Kathmandu, Nepal.

CONFERENCE PRESENTATIONS

- 2018 *Keynote– Cloud Computing in Nepal: Trends, Situations, and Perspectives.* The International Science and Technology Conference (Modern Network Technologies, MoNeTec - 2018). October 25–26. Skoltech, Moscow, Russia
- 2018 *Learning Chinese Language-Perception, Motivation and Strategy.* International Forum on China-Nepal Cooperation, October 10–14, Hebei University of Economics and Business, Shijiazhuang, China
- 2018 *Keynote– Cloud Computing in Nepal: Status.* The 2nd World Intelligence Congress (WIC 2018). May 16–18. Tianjin, China.
- 2018 *Teachers Perceptions on E-learning for teaching in Science and Engineering.* The 1st International Symposium on Humanities and Social Sciences, April 28–29, Buriram Rajabhat University, Buriram, Thailand.
- 2017 *Keynote– Nepali Youth, Innovation and Technological Transformation.* The Belt and Road Youth Innovation Conference. November 10–12. Beijing, China.
- 2017 *Blended Learning in DWIT College: From Learners Perspective.* IT4D Conference, July 29-31, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2017 *Massive Open Online Courses: Challenges and Opportunities in Nepal.* IT4D Conference, July 29-31, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2017 *Computer Programming: Who Does Better? A Case of Kathmandu University.* IT4D Conference, July 29-31, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2017 *Reflections on First MOOC of Nepal: From Learner’s Perspectives.* International Conference on Open and Innovative Education, July 12–14, The Open University of Hong Kong, Hong Kong, China.
- 2017 *Initiation of MOOC in Nepal by Kathmandu University.* National Conference on ICT Integrated Pedagogy for Effective and Meaningful Learning, July 8, School of Education, Kathmandu University, Kathmandu, Nepal.

- 2017 *Challenges and Opportunities of Cloud Computing in Nepal*. The 9th China Cloud Computing Conference. June 13–16. Beijing, China.
- 2016 *Awareness of MOOCs Among College Students*. IT4D Conference, July 31–August 1, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2016 *Flipped Class: New e-Learning Object in Nepal and Perspective of Teachers*. IT4D Conference, July 31–August 1, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2016 *Mobile Learning in Primary Education in Nepal*. IT4D Conference, July 31–August 1, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2016 *Load Capacity Testing for Moodle Server*. IT4D Conference, July 31–August 1, Deerwalk Institute of Technology, Kathmandu Nepal.
- 2015 *Load Balancing in high Traffic Web Server in Cloud*. International Conference on Software, Knowledge, Information Management and Applications, December 15–17, Kantipur Engineering College, Kathmandu, Nepal.
- 2015 *Cloud Technology for Higher Education*. International Conference on Software, Knowledge, Information Management and Applications, December 15–17, Kantipur Engineering College, Kathmandu, Nepal.

SERVICE TO UNIVERSITY AND DEPARTMENT

Kathmandu University

Kathmandu University Policy on Academic Integrity Committee (2017–2018)

School of Science

B.Sc. in Computational Mathematics Curriculum Committee (2017–18)

School of Engineering

Undergraduate Program Coordinator (2010–2011)

Graduate Program Coordinator (2011–2015)

Department Coordinator (2013)

Subject Committee (2010–2013)

Research Committee (2010–2013)

PROFESSIONAL MEMBERSHIPS

Nepal Research and Education Network (2017–2018 : General Member)

Nepal Research and Education Network (2018–Present : Executive Member)

IEEE Computer Society (2017–Present)

Information Technology Professional forum (2010–Present)

ADVISING/SUPERVISING

Master Students

Mr. Bikash Shrestha (Completed)
Mr. Shiba Ratna Tamrakar (Completed)
Mr. Sameer Tamrakar (Completed)
Mr. Ramesh Maharjan (Completed)
Mr. Sangam Uprety (Completed)
Mr. Bijaya Kumar Shrestha (Completed)
Ms. Amrita Rai (Completed)
Mr. Saksham Baral (Completed)

TEACHING

Graduate Program

Design and Analysis of Algorithms

Undergraduate Program

C Programming
C++ Programming
Data Structures and Algorithms
Operating Systems
Algorithm Complexity
Advanced Programming Using Java

WORKSHOP/TRAINING/CONSULTANCY

Research on *Implementing MOOC on Faecal Sludge Management*, 2018.

Role: MOOC Expert

Implemented by: Kathmandu University, Dhulikhel, Nepal

Supported by: Bills and Melinda Gates Foundation, USA

Research on *Study to Find WSIS Status and Implementation of Action Lines*, 2017–2018.

Role: IT Expert

Implemented by: EICT, Kathmandu, Nepal

Workshop on Research Proposal Writing, 18–20 June, 2018.

Role: Resource persons

Invited by: Purbanchal University, Biratnagar, Nepal.

Training on Understanding Plagiarism, 1–3 June, 2018.
Role: Resource persons
Invited by: Western Regional College (Institute of Engineering), Pokhara, Nepal.

Training on Research Methodology, 25–27 May, 2018 Role: Resource person Invited by:
Kantipur City College, Kathmandu, Nepal

Workshop on Research Writing, 2–4 July, 2017.
Role: Resource Person
Invited by: Pokhara University, Pokhara, Nepal.

Training on Research Methodology, 28–30 June, 2017.
Role: Resource person
Invited by: Western Regional College (Institute of Engineering), Pokhara, Nepal.

Workshop on Understanding Plagiarism, 21–23 June, 2017.
Role: Organizer and Resource person
Supported by: University Grants Commission, Nepal

Training on Data Analysis Using R, 22–24 June, 2016.
Role: Organizer and Instructor
Supported by: University Grants Commission, Nepal

Training on Entrepreneurship and Incubation, 1-3 June, 2016.
Role: Organizer
Supported by: University Grants Commission, Nepal

Workshop on GPU Parallel Computing, 24–26 November, 2015.
Role: Organizer and Instructor
Supported by: E T Nepal

Training on Practical Way of Project Management, 28–30 September, 2015.
Role: Organizer
Supported by: AOTS, Nepal

Training on Research Methodology, 29 June–1 July, 2015.
Role: Organizer and Resource person
Supported by: University Grants Commission, Nepal

Workshop on e-Learning Through Moodle, 19–20 July, 2014.
Role: Organizer and Resource person
Supported by: University Grants Commission, Nepal

Workshop on Culture of Inquiry, 16–17 December, 2013.
Role: Organizer
Supported by: University Grants Commission, Nepal

Workshop on Academia-Industry Dialogue, 15 December, 2013.
Role: Organizer
Supported by: University Grants Commission, Nepal

Training on GPU Parallel Computing Using CUDA, 13–15 November, 2013.

Role: Organizer

Supported by: E T Nepal

Workshop on Webpage Design and Development, 30 December 2012–2 January, 2013.

Role: Organizer and Instructor

Supported by: Room To Read, Nepal

Training on , 23–25 December, 2012.

Role: Organizer and Resource person

Supported by: University Grants Commission, Nepal

Training on CUDA Programming, 3–5 September, 2012.

Role: Organizer

Supported by: E T Nepal

Training on IBM DB2, 15–17 April, 2010.

Role: Organizer

Supported by: IBM India

PROFESSIONAL SERVICES, AS A REVIEW MEMBER

Internatioanl Conference on Software, Knowledge, Information Management and Applications, 2015–2018

<http://skimanetwork.info/>

International Journal of E-Learning Distance Education, 2017 <http://www.ijede.ca>

Informing Science and IT Education Conference, Vietnam, 2016

<http://insite.nu>

The International Review of Research in Open and Distributed Learning, 2016

<http://www.irrodl.org>

Journal of Information Technology Education: Research, 2016

<https://www.informingscience.org/Journals/JITEResearch/Overview>

MISCELLANEOUS

Languages: Nepali (Mothertongue), English (Very Good), Chinese (Basic)

Programming Languages: C, C++, Java, Python Programming, R Programming, L^AT_EX.