

Dr.Nandini.H.M

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Department of Studies & Research in Information Technology

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Educational Details:

Professional:

Ph.D : Obtained doctoral degree in Computer Science under the guidance of Dr. H K Chethan, University of Mysore, Mysuru in the year 2022.

M.Sc. : Master of Science in Information Technology from Amrita Vishwa Vidyapeetham University.

Professional Experience:

- ❖ May 2013 onwards – Assistant Professor, Department of Information Technology, Karnataka State Open University, Mysuru
- ❖ January 2011 to May 2013 – Guest Lecturer, Department of Information Technology, Karnataka State Open University, Mysuru.
- ❖ June 2009 to January 2011 – Lecturer, Department of Computer Science, Mahaveer Vidya Mandir Composite PU College, Mysuru.

Areas of interest:

❖ **Academic interest**

Data structures and Algorithms, Data Base Management Systems, Computer Networks, Web Technologies, programming concepts using C, Image Processing, python.

❖ **Research interest**

Image and Video Processing, Pattern Recognition, Computer Vision, Machine Learning.

Professional Recognition:

- ❖ Serving as an Assistant Professor at the Department of Studies and Research in Information Technology, KSOU, Mysuru.

- ❖ Serving as a Member of the Board of Studies and Board of Examiners in Information Technology/Science (PG/UG/Diploma), KSOU, Mysuru.
- ❖ Guiding several M.Sc. Information Technology/Science and MBA IT project works.

Academic/Membership in Professional Bodies:

- ❖ Chairman of Board of Examiners in Information Science (PG) 2021-22, KSOU, Mysuru.
- ❖ Member of Board of Studies in Information Technology (PG /Diploma courses) from 2014 to till date, KSOU, Mysuru.
- ❖ Member of Board of Studies in PG Diploma in Computer Teachers Training Course, Certified Computer Professional and Bachelor in Software Engineering and Systems (2015), Adithya Institute of Management and Information Technology, Mysuru.
- ❖ Member of Board of Studies in Online IT programmes (2014-15), KSOU, Mysuru.

Orientation / Refresher Program Attended:

Orientation Programme:

- ❖ Participated in 102nd UGC Sponsored Orientation Programme for Teachers at UGC Academic Staff College, University of Mysore from 28-12-2013 to 24-01-2014.

Refresher Course:

- ❖ Participated in Refresher Course on “Education Technology” from 01-03-2018 to 21-03-2018 at UGC Academic Staff College, University of Mysore, Mysuru.

Online Certification Course:

- ❖ Successfully completed the course “Cloud Computing”, Faculty Development Programme (NPTEL-AICTE online course) funded by Ministry of HRD, Government of India August-October 2021.
- ❖ Successfully completed the course “Python for Data Sciences”, Faculty Development Programme (NPTEL-AICTE online course) funded by the ministry of HRD, Government of India. August-September 2019.

Articles published in Journals:

- ❖ An Efficient Method for Video Shot Transition Detection Using Probability Binary Weight Approach *IJCVIP: Volume 11, Issue 3, Article 1. (160121-022056). 2021.*
- ❖ Shot based keyframe extraction using edge-LBP approach. *Journal of King Saud University-Computer and Information Sciences. Elsevier.2020.*
- ❖ Textural Features in Script Identification for Printed Bilingual Documents, *International Journal of Computer Engineering and Applications, (IJCEA), Volume XII, Issue I, pp. 264-281, Jan. 18.*
- ❖ Segmentation of Tri-Lingual Documents, *International Journals of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Vol. 7, issue 2, pp. 103-111, February 2017.*

Papers Presented in Conferences:

- ❖ Keyframe Extraction using Sobel Fuzzified Weighted approach. In 20th International Conference on Intelligent System Design and Applications (ISDA 2020), Springer.
- ❖ Abrupt Shot Change Detection using Midhinge Local Binary Pattern. In *2020 IEEE-HYDCON* (pp. 1-5). IEEE.
- ❖ Video Shot Retrieval Using Multi-feature Approach. In *IOT with Smart Systems 2022* (pp. 297-305). Springer, Singapore.

Attended the following FDP/Short Term Course:

- ❖ Online Five Days Faculty Development Program on “ROBOT OPERATING SYSTEM” sponsored by AICTE Training and Learning (ATAL) from 10th To 14th January 2022.
- ❖ Seven days Faculty Development Program on “Research Trends in Physical Sciences” organized by NIE First Grade College, Mysore from 15-01-2021 to 22-01-2021
- ❖ Five Day Faculty Development Programme on "Recent Trends and Challenges in Computer Science" organized by Vidyavardhaka College of Engineering, Mysore from 13th July to 17th July 2020.
- ❖ Five days Virtual Faculty Development “Program on Natural Language Processing” (NLP) organized by Reva University, Bangalore from 30th June to 4th July 2020.
- ❖ Five days Online Faculty Development Program on “Artificial Intelligence and Data Science” organized by Oriental Institute of Science and Technology, Bhopal from 10th June to 14th June 2020.

- ❖ Five days Virtual Faculty Development Program on “Neural Networks and Deep Learning using Python” organized by Reva University, Bangalore from 1st June to 5th June 2020.
- ❖ Three days Faculty Development Program on Network Simulator-2 organized by Department of Computer Science and Engineering, Vidyavardhaka College of Engineering, Mysuru-02 from 17th August to 19th August 2017.
- ❖ Five days Faculty Development Programme on “Computational Linear Algebra” organized by Sri Jayachamarajendra College of Engineering, Mysuru-06 from 7th December to 11th December 2016.
- ❖ Short Term Course on Radio Program Production as a Method in Pedagogy from 1st July to 6th July 2020 at Karnataka State Open University, Mysore.

Attended the following Conference/Workshops/Symposium:

- ❖ Participated in the National Webinar on “Intellectual Property Rights and its Relevance” organized by the Department of Studies and Research in Political Science, Karnataka State Open University, Mysuru on 28/06/2022.
- ❖ Online workshop on ”Use of Technology and OER for online content development for better learning State held at Karnataka State Open University, Mysore from 22nd March 2021 to 26th March 2021.
- ❖ Online workshop on “Digital Image Processing Using Python for beginners” organized by JSS College for Women, Chamarajanagara from 18th to 19th January 2021.
- ❖ Online “Science Leadership Workshop” organized by Central University of Punjab from 22nd to 28th June 2020.
- ❖ Workshop on “V-Labs: Advancing towards Virtual Experiments at Karnataka State Open University on 3rd March 2020.
- ❖ International Seminar on “AI in Real Time: Challenges and Opportunities” at Department of Computer Applications, JSS Science and Technology University, Mysore on 13th January 2020.
- ❖ Workshop on Choice Based Credit System (CBCS) at Karnataka State Open University On 19th July 2019
- ❖ State Level Seminar on Thoughts and Philosophy of Mahatma Gandhi organized by Gandhi Chair, KSOU on 16th October 2018.
- ❖ Workshop on “Latex” organized by University of Mysore and MUniCSAA on 11th March 2017.

- ❖ Workshop on “Statistics and Probability” organized by Maharaja Institute of Technology from 15th to 16th October 2016.
- ❖ Workshop on “Accelerating gross enrolment ratio in education – issues and challenges” at Karnataka State Open University on 14th May 2015.
- ❖ One day Workshop on “ Technology In Higher Education” organized by University of Mysore, in association with Karnataka Jnana Aayoga on 7th February 2015.
- ❖ Three days National level workshop on ”Mathematics behind Machine Learning” at Sri Jayachamarajendra College of Engineering from 21st to 23rd Augus2014.
- ❖ Workshop on “Capacity Building for Sakala Implementing Officers” at Administrative Training Institute, Mysuru on 17th and 18th February 2014.
- ❖ Two days’ Workshop on “Self Learning Material Development” at Karnataka State Open University from 7th -8th October 2013.
- ❖ Two days’ Workshop on “Development of Self Learning Material” at Karnataka State Open University on 2nd and 3rd June 2011.
- ❖ Three days International Conference on “Open and Distance Learning in Global Environment- Issues and Challenges” at Karnataka State Open University from 21st to 23rd September 2011.
- ❖ One day National Conference on “Information Literacy and Higher Education in Digital Environment” at Karnataka State Open University on 30th March 2011.
