

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

KNOWLEDGE ASSET 2023-24

Name : Dr. A. Kousar Nikhath
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Experience (in years): Teaching: 19 Research: 3
AICTE ID : 1-464122897 DOB : 09-08-1982

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	PhD	2019	CSE
2	M.Tech	2010	SE
3	B. Tech	2003	CSE

2. Teaching and Learning:

2.1. Teaching Interests:

AI, ML, NN, OOAD, MFCS, Soft Computing, SE related courses, OS, DMDW, JAVA etc.,

2.2 Novel Teaching & Learning Techniques adopted:

WIT & WILL, Brain Storming, Learning by Doing (LBD), Group Discussions, Videos, Story boards, Student Presentations, Concept maps, Group Project / Presentation, Conduct of Quiz.

2.3 Involvement in curriculum updating / Design:

- Story board design for the courses AI, OOAD, ML, C++.
- Designed syllabi for the courses related to AI, ML, Soft Computing, Cognitive Science, AI & Humanity, Explainable AI.
- Designed Lab Protocols for the courses like AI, OOAD, ML.
- Prepared Lab manual for AI, SE lab.
- Designed WIT & WILL for AI, ML, SQAT, Cognitive Science course.

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- To motivate students towards research and publication.
- Browsing internet for research articles and Reading Books.
- Listen to music.

3.2. CCA/ECA Organized/Conducted:

- Conduct of Internal and Grand Finale Smart India Hackathon, SIH 2023.
- Conduct of Coding Contest as a part of Krithomedh student club.
- Conduct of Internal Hackathon for KAVACH-2023 on 21st April, 2023.
- Conduct of 36hr Grand finale Hackathon for Smart India Hackathon-2022 from August 25th-26th, 2022.
- Conduct of 36hr Internal Hackathon for SIH-2022 from March 16th-March 17th, 2022.
- Conduct of 36hr Internal Hackathon for the theme "HealthCare4.0" in collaboration with JHUB at VNRVJIET.
- Alumni Home coming Day, YUGMA organized every 3rd Saturday of December.
- Conducted Mock Interviews by Alumni for 3rd year students
- Alumni Meeting with Board of members.
- Conduct of Alumni guest lectures as a part of career vision every year.

3.3. CCA/ECA participated:

- Participated at IBC Hackfest organized by IBC Media on 29th Nov 2023 at THuB.
- Participated in "Orientation Programme for Exports" Organized by National Commission of Women, in association with India, SME Forum, Training partner: Asian Center for Economic & Entrepreneurship Development & Education.
- Participated in "Do your Venture through Entrepreneurship Programme" conducted by National Commission for Women (NCW), in association with IIM, B, edX
- Open House, Convergence, Alumni fests, Sport fests every year
- Attended Higher Institutes like IIT-Hyderabad, ICRISAT, BITS-Hyderabad, NIT Warangal, Chandigarh University, JNTUH-JHUB, ThuB etc.,
- Accompanied Industrial visits, Shadow Engineering, Mirror Engineering

3.4. Counseling and Mentoring Activity:

- Mentor for AIML and IoT students

3.5. Committees involved in:

Department level:

- UG Coordinator.
- Member in Board of Studies.
- Budget and Finance Accounting Coordinator.
- Krithomedh Student Club Coordinator.

Institute Level:

- Member of Institute Alumni Cell.
- Member of Institute College Cultural and Technical fests.
- Member of Institute Innovation Cell.

- Member of Research & Development.

4.Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

- Conducted IoT Workshop for AIML & IoT students.
- Conducted guest lecture on AI and ML topics.
- Conducted DBMS guest Lecture for AIML & IoT students.
- Conducted guest lecture on AI Trends for AIML & IoT students.
- Conducted Webinar on “Deep Learning in Health Care applications”.

4.2 Attended:

- Certified for AICTE NPTEL course on “Natural Language Processing” organized by NPTEL, AICTE in association with IIT, Kharagpur during Jan-April 2024, received FDP certificate too.
- Certified NPTEL course on “Teaching learning in Engineering, TALE” organized by AICTE during Jan-Feb 2024, received FDP certificate too.
- Attended Leadership Workshop titled "Presencing: An Odyssey towards Future Envision of Vignana Jyothi “during 27-12-2023 to 28-12-2023, organized by CP&DT, VNRVJIET.
- Participated Regional Meet of MIC, hosted by IARE College on 11-12-2023.
- Attended PDP on “Deep Learning for Computer Vision and its Applications” during 6th to 11th Feb 2024 organized by department of CSE-AIML& IoT, VNRVJIET.
- Attended PDP on “Exploring the Realm of Generative AI for Text and Image Processing” during 19th to 24th Feb 2024 organized by department of CSE- AIML& IoT, VNRVJIET.
- Attended FDP on “Deep Dive into Trends in AI and ML, organized by Coimbatore Institute of Engineering and Technology.
- Certified for speaking and written English score conducted by Online App of British council.
- Attended FDP on “Natural Language Processing”, organized by department of CSE- AIML & IoT from 13.02.23 to 17.02.23
- Attended “30 Days Master Class on “Machine learning”, organized by Pantech e-learning in association with Skill APSSDC from 11.1.2023 to 10.2.2023
- Certified for AICTE ATAL FDP on “Artificial Intelligence” conducted by AICTE ATAL under the Tech Saksham Program (a joint CSR initiative of Microsoft and SAP, implemented by Edunet Foundation) from 20.2.203 to 24.2.2023
- Attended NPTEL FDP on for the course “NBA Accreditation Teaching and Learning” in Engineering (NATE), organized by AICTE during Jan -April 2022.
- Attended Conference on “9th International Conference on Transformations in Engineering Education “(ICTIEE-2022).
- Attended FDP on “IoT” organized by GITAM, Vishakhapatnam in association with E&ICT Academy, IIT Guwahati.
- Attended 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education”, organized by All India Council for Technical Education (AICTE) .

- Attended One-Week Online Faculty Development Programme on “Internet of Things” organized by E&ICT Academy IIT Guwahati, in association with GITAM Institute of Technology, Visakhapatnam Campus and support from Uniconverge Technologies Pvt. Ltd.
- Attended 5- day online short-term course on “Machine Learning, Deep Learning and IoT driven smart applications”, conducted by CSE-AIML&IoT in association with NIT, Warangal
- Attended FDP on “R Programming: A practical Approach”, organized by department of CSE-AIML&IoT, VNRVJIET.
- Attended One-week Online FDP on “Block Chain Technology-The Distributed Trust of Cyber Security and IoT Security”, organized by Department of CSE, NIT Warangal
- Attended AICTE Training and Learning (ATAL) Academy Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR)".
- Attended One Week Online FDP on Recent trends and Advancements in Computer Science by Eminent Academicians, organized by Vidya Jyothi Institute of Technology.
- Facilitated 60 hours Pre-Education Program for Training in Java and OOPs concepts for students at EPAM.
- Certified in Python for Research from edX, Harvard University
- Certified in AI, ML, Cognitive analytics & Robotics Process automation from Coursera
- Certified in Reinforcement learning from Udemy.
- Certified in Python for Machine Learning (Project based learning) from Skify Labs
- Certified in Python for Data Science from Grey Atom
- Attended many other 26 FDP’s and workshops at national, state and local level in the various domains like ML, AI, Deep Learning, Data Sciences, from NIT Patna, Warangal, IIIT, reputed institutes.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

S.No	Title of Lecture / Academic Session	Title of Conference/ Seminar etc.	Organized by	Whether international/ national
1	Delivered Session on Guest Lecture on “Emerging Trends and Employability Skills”	Guest Lecture	VSR Government and Degree College, Andhra Pradesh	State Level
2	Delivered session on “Artificial Intelligence -Trends and Research Aspects”	FDP	Department of CSE, Koneru Lakshamiah Education foundation	State Level
3	Artificial Intelligence and Expert Systems	Guest Lecture	Geetanjali College of Engineering &Technology	State

4	Machine Learning-Genetic Algorithms & Reinforcement Learning	Guest Lecture	Mother Teresa Institute of Science & Technology, Sathupally	State
5	Machine Learning-Artificial Neural Networks	Guest Lecture	Mother Teresa Institute of Science & Technology, Sathupally	State
6	Conduct of Alumni Guest lecturers for second- and first-year students	Seminars	VNRVJIET	Local
7	Organized FDP on " Artificial Intelligence and Machine Learning	FDP	VNRVJIET	National
8	Delivered Session on Regression Analysis for PDP.	PDP on Applications of Artificial Intelligence and Machine Learning July 2020	VNRVJIET	National
9	Delivered SAMASYA –FDP, session for first year students on Problem Analysis	SAMASYA-Problem Analysis	JNTUH	National
10	Delivered Session on Regression analysis for FDP	FDP on Artificial Intelligence and Machine Learning June 2020	VNRVJIET	National
11	Delivered Session on Data Mining Concepts.	2 Weeks Staff Development Programme on Advanced Data mining Techniques for FDP	AICTE sponsored, VNRVJIET	National
12	Delivered Webinar on Introduction to Artificial Intelligence	Webinars Series	Department of CSE &CSI	Local
13	Delivered session on “Use of Maths in Neural Networks “at FDP on “Use of Data Science “conducted by H&S, CDC, VNRVJIET	Applications of Maths in Data Science	H&S department, VNRVJIET	Local

5.2. Articles/Chapters published in Books: Total:8

Sl.No.	Title of the Article	Book Title/Editor/Publisher
1	Tilapia Fish Freshness Detection Using CNN Models	Proceedings of International Advanced Computing Conference /Springer Nature Switzerland
2	Detection of Suspicious Human Activities from Surveillance Camera using Neural Networks	Proceedings of International Conference on Frontiers of Intelligent Computing: Theory and Applications /Springer
3	“An Intelligent College Enquiry Bot using NLP and Deep Learning based techniques” at International Conference for Advancement in Technology (ICONAT).	IEEE
4	“Detection and Classification of Lung Carcinoma using CTScans”at "International conference on Smart Technologies for Sustainable Development."	Journal of Physics
5	“Heart Disease Prediction using Decision Tree and SVM”	Proceedings of International Conference on Advances in Computer Engineering and Communication Systems
6	Smart Dust Bin: Reward Provider	Proceedings of International Conference on Advances in Computer Engineering and Communication Systems
7	SCP Design of Situated Cognitive Processing Model to Assist Learning-Centric Approach for Higher Education in Smart Classrooms	Advances in Intelligent Systems and Computing Springer, Singapore
8	Road Traffic Counting and Analysis Using Video Processing	Advances in Intelligent Systems and Computing Springer, Singapore

5.3. Books published as single author or as editor: NA**5.4. Projects Guided:**

- a) UG: 18, till date, currently: guiding Mini Project & Summer Internship Teams
- b) PG: 5

5.5. Research Interests: Text mining, Artificial Intelligence, Machine Learning, Neural Networks, Document Clustering

5.6. Ph.D students: NA

- a) Enrolled:

b) Submitted:

c) Awarded:

5.7. Papers published in reviewed journals: Total :16

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISS N No.	Impact Factor/ Citation Index	National/ Internatio nal
1	Fog-Sec: Secure end-to-end communication in fog-enabled IoT network using permissioned blockchain system	International Journal of Network Management, Vol: 33,5	1099-1190	1.914	Internatio nal
2	Medi Blocks: secure exchanging of electronic health records (EHRs) using trust-based blockchain network with privacy concerns	Cluster Computing: The Journal of Networks, Software Tools and Applications	1573-7543	2.303	Internatio nal
3	Building a k-Nearest Neighbor Classifier for Text Categorization	IJCSIT, (International Journal of Computer Science and Information Technology), Vol no:7, Issue1,,2016, Pages: 254-256	ISSN: 0975-9646	3.32	Internatio nal
4	Incremental evolutionary genetic algorithm based optimal document clustering (ODC)	JATIT, Journal of Theoretical and Applied Information Technology, 31st May 2016	2278 – 3091	Elsevier, Scopus	National
5	COCUS: Concept based Document Clustering by Corpus Utility Scale	IJST, Indian Journal of Science and Technology,	09746846	Web of Science, UGC approved journal	National
6	Conceptual Relevance Based Document Clustering Using Concept Utility Scale	Asian Journal of Scientific Research	1992-1454,	Scopus	Internatio nal
7	Hybrid Approach to Explore Efficient Document	Journal of Computational	Vol.16,1-6,2019	Dec,2018.	INT

	Clustering using multi objective attributes	Theory and Nano Science			
8	Feature selection, Optimization, and Clustering Strategies of Text Documents: Contemporary Affirmation of Recent Literature	International Journal of Electrical and Communications Engineering	Vol. 9, No. 2,	April 2019	INT
9	Sustainable and Portable Low Cost IOT Based Terrace Model to Grow True Organic Greens	International Journal of Engineering and Advanced Technology (IJEAT)	2249-8958	1.0	INT
10	Diabetic Detection Using Data Mining Techniques	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2249-6890	2249-6890 Impact factor: 9.6246	International
11	Integrated Computing System for Measuring Driver Safety Index	International Journal of Emerging Technology and Advanced Engineering	2321-9637	Impact factor: 7.127	International
12	Online shortest path computation for live traffic index	International Journal of Computer Science and Information Technology	0976-8491	Impact factor: 1.054	International
13	A Qualitative Evaluation and Comparison of Cognitive Learning Analytics for Blended Learning Technology	International Journal of Advanced Science and Technology	2207-6360	Impact factor: 0.41	International

14	Identifying Malicious Applications in Social Networking Sites like Facebook	Journal of Applied Science and Computations	1076-5131 Volume 5, Issue 8, / August,20 18 / Pp:64-67	Impact factor:5.8	National
15	Detecting Malfunctioning Nodes in Mobile Ad hoc Networks by using EAACK Pages	International Journal of Research in Advent Technology	2321-9637	Impact factor: 0.456	International
16	An Integrated System for Personal Health Record in Cloud Computing using attribute-based encryption	International Journal of Research in Advent Technology	2321-9637	0.453	International

5.8. Papers presented at National / International Conferences: Total :11

S. No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Tilapia Fish Freshness Detection Using CNN Models	International Advanced Computing Conference.IACC-2023	International	15.12.2023 to 16.12.2023
2	Detection of Suspicious Human Activities from Surveillance Camera using Neural Networks	11th International Conference on Frontiers of Intelligent Computing Theory And Applications, FICTA 2023, organized by Cardiff School of Technologies, Cardiff Metropolitan University, Cardiff, UK	International	11.4.2023 to 12.4.2023
3	An Intelligent College Enquiry Bot using NLP and Deep Learning based techniques	2022 International Conference for Advancement in Technology (ICONAT), IEEE, Bombay Section	International	January 2022
4	Detection and Classification of Lung	International Conference on Smart Technologies of	International	September 2021

	Carcinoma Using CT scans	Sustainable Development at JIS College of Engineering		
5	Heart Disease Prediction using Decision Tree and SVM	2 nd International Conference on Advances in Computer Engineering and Communication Systems	International	August 2021
6	SCP Design of Situated Cognitive Processing Model to Assist Learning-Centric Approach for Higher Education in Smart Classrooms	International Conference on Information System Design and Intelligent applications at CMR College	International	2019-2020
7	Road Traffic Counting and Analysis Using Video Processing	International Conference on Information System Design and Intelligent applications at CMR College	International	2019-2020
8	Smart Dust Bin: Reward Provider	International Conference on Advances in Computer Engineering and Communication Systems (ICACECS-2020), VNRVJIET	International	2020-2021
9	Contextual approach for assisting anxiety disorders	International Conference for Systematic, Cybernetics, Informatics, ICSCI, Pentagram Research Centre (P) Limited, Hyderabad	International	2012
10	Simulation of interaction of 3 object	International Conference for Systematic, Cybernetics, Informatics, ICSCI, Pentagram Research Centre (P) Limited Hyderabad.	International	2011
11	Simulation of boat dynamics	International Conference for Systematic, Cybernetics, Informatics, ICSCI, Pentagram Research Centre (P) Limited, Hyderabad.	International	2010

5.9. Sponsored research Projects: Nil

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects: Academic Consultancy

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
1	Artificial Intelligence and Python Programming	VRS School, Hyderabad	22-23	2.5 lakhs	Completed

6. Awards / Honors received:

- Certificate of Elite-Silver from NPTEL for the course Teaching and Learning in Engineering (TALE) during Jan-Feb 2024.
- Certificate of Elite from NPTEL for the course NBA Accreditation Teaching and Learning in Engineering (NATE) during Jan-April 2022.
- Certificate of appreciation from Dell for mentoring student teams at Del-a Thon.
- Faculty Excellence Award by Ed & ImmiGo Overseas education on the eve of Teachers' Day ,2021
- Certificate of Appreciation from Smart India Hackathon for evaluating Software Problems and conducting grand finale event.
- Certificate of Excellence from IIIT, Hyderabad for the Course "Advanced Certification Course in Artificial Intelligence and Machine Learning Jan, 2020.
- Shortlisted for Regional Convention Competition for the project titled "Sustainable and Portable Low Cost IOT Based Terrace Model to Grow True Organic Greens" at AICTE sponsored Vishwakarma Chatra Awards 2019(Student Team got benefit with AICTE 20 Research Activity points.
- Best Social Selection Award and Second-Best Jury Award for the project titled "Integrated Computing System for Measuring Driver Safety Index" at College of Engineering, Pune, 2012
- Got Appreciation Certificate for Project titled " Integrated Computing System for Measuring Driver Safety Index" at Jedi-Project Challenge 2012, IISC, Bangalore.
- 3 Best Paper awards for paper presentation at International Conference at Systematic, Cybernetics, Informatics, for 3 years during 2009,2010, 2012.
- Top 2: Merit Certificate at M. Tech Programme-2010.

7. Motto: Work with commitment sounds well