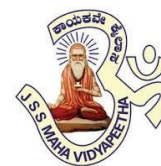





JSS Mahavidyapeetha
JSS Academy of Technical Education
Department of Computer Science & Engineering
www.jssaten.ac.in



FACULTY PROFILE

Department: Computer Science and Engineering

1. Personal Details

NAME	Dr. Rachna Jain	
DEPARTMENT	Computer Science & Engineering	
DESIGNATION	Associate Professor	
PHONE	9910318665	
EMAIL ID	rachnajain@jssaten.ac.in	
Date of Joining (JSSATEN)	29.01.2007	

2. Experience

Total Experience in Years	Teaching: 21 Years	Industry: NiL	Research: 6 Years
JSS Academy of Technical Education, Noida	Since 29 Jan,2007 to till date		
Dronacharya Engineering College,Gurgaon	Mar 2004-June 2006		
Hindu College of Engineering,Sonepat	July 2001-Feb 2004		

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E. / M.Sc.,	Electronics & Communication	2001	C.R. State College of Engg., Murthal	M.D.U. ,Rohtak
M.E. / M.Tech. / M.Sc.	Information Technology	2009	GGSIPIU, New Delhi	I.P. University, Delhi
Ph.D.	Computer Science & Engg.	2019	MRIIRS, Faridabad	MRIIRS, Faridabad

4. Research & Publications

Papers Published in SCIE	02	
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Papers Published in Web of Science indexed Journals	03	
Papers Published in SCOPUS indexed Journals	03	
Papers Published in other Journals	01 (UGC Listed)	
Papers Presented in Conferences / Symposium	08	
Books / Book chaptersPublished	Apprising trust key management in IoT cross layer framework	
	Name of the book: Transforming internet of things next generation Publisher: IGI Global Year of Publication:2021	
	Challenges and applications of Cyber physical systems	
	Name of the book: Design, Applications, and Maintenance of Cyber-Physical Systems Publisher: IGI Global Year of Publication:2021	
	Deep Learning-Based Techniques to Identify COVID-19 Patients Using Medical Image Segmentation	
	Energy based improved MPR selection in OLSR routing protocol	
	Name of the book: Data Management, Analytics and Innovation, Part of the Advances in intelligent system and Computing Publisher: Springer Year of Publication:2020	
	Performance Evaluation of OLSR-MD Routing Protocol for MANETS	
	Name of the book: Advances in Computer Communication and Computational Sciences Publisher: Springer Year of Publication:2019	
	Importance of data wrangling in Industry 4.0	
	Name of the book: Data Wrangling: Concepts, Applications and Tools Publisher: Wiley Year of Publication:2023	

5. Research Guidance

PhD Guide? Give field & University	No	
PhDs / Projects Guided		Projects at Master's Level: 01 Projects at Bachelor's Level: 35

6. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	A data mining system for demonstration and determination of mixing various chemical composition US patent no. 202111015819	Published
2	An image processing device and system for screening of medical equipment US patent no. 202111017848	Published
3	A proficient web based healthy tracking system provided by cloud computing and machine learning US patent no.202211071370A	Published

7. Awards Received

Gold medal	Received from Haryana Govt. after topping state Matriculation Examination, 1995.
Feedback	Received Outstanding Student Feedback Appreciation letter in the session 2017-18.

8. Publications

i. International Journals (SCIE)

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Ant Colony inspired energy efficient OLSR(AC-OLSR) routing protocol in MANETS	Rachna Jain	Wireless Personal Communications	Published Online, https://doi.org/10.1007/s11277-022-09514-3	Web of Science Indexed, Scopus Indexed	1.65	Springer
2	An QoS Aware Link Defined OLSR (LD-OLSR) Routing Protocol for MANETS	Rachna Jain, Indu Kashyap	Wireless Personal Communications	Issue 3, 2019, pp. 1745-1758	Web of Science Indexed, Scopus Indexed	1.2	Springer
3	Blockchain based certificate validation	Rachna Jain, Geetika Dhand, Kavita Sheoran, Shaily Malik, Nistha Jatana	Fusion: Practice and Applications	Vol. 12, no. 2, pp. 42-53, 2023	Scopus Indexed	-	ASPG

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Experimental load analysis of AODV, OLSR in MANETS	Rachna Jain, Indu Kashyap	IIOAB	vol. 9, issue 1, pp 78-82, 2018	WOS	0.152	-
2	An Efficient Energy Aware Link Stable Routing Protocol in MANETS	Rachna Jain, Indu Kashyap	IJMPERD	vol. 8, issue 3, pp. 623-634, 2018	Scopus	0.194	-

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Survey of	Rachna Jain,	2nd International	ISBN:978-	Scopus	-	IEEE

	Energy Aware Link Stable Routing Protocols in MANETS	Indu Kashyap	Conference on Trends in Electronics and Informatics (ICOEI)	1-5386-3570-4,pp 1176-1178			
2	An QoS aware link stable modified OLSR routing protocol for MANETS	Rachna Jain, Indu Kashyap	International Conference on Computational intelligence and Internet of Things (ICCIoT), 14th-15th December 2018 at NIT Agartala	-	-	-	-
3	Cluster Head Selection using Genetic Algorithm in MANETS	Rachna Jain, Indu Kashyap	INDIACOM-2018	-	-	-	IEEE
4	Comparative Analysis of Routing Protocols in MANETS	Rachna Jain, Indu Kashyap	EECCMC-2018	-	-	-	IEEE
5	Importance of feature selection in big data analysis	Rachna Jain, Mritunjay Sharma	ICCSEMS 2020	-	-	-	-
6	Maximizing network lifetime in MANETS through load balancing	Rachna Jain, Indu Kashyap	3 rd international conference on 17 th Jan 2016 at IIC ,New Delhi	-	-	-	-
7	Leaf disease detection using convolution neural network	Shriya Omar, Rachna Jain	COMITCON-2022	-	Scopus	-	IEEE
8	Classification of disease symptoms in tomato leaf with the help of Convolution Neural Network	Shriya Omar, Rachna Jain	CISES-2022	-	Scopus	-	IEEE
9	Comparative analysis of breast cancer classification using machine learning	Rachna Jain,Rudrakshi Soni,Srashti Mittal,Vishal Parashar	Int. conf.on advancement and key challenges in green energy and computing Feb-2023	-	Scopus	-	IEEE

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Six days national workshop on intellectual property rights	Cell for IPR Promotion and Management (CIPAM)	1 st Mar-6 th Mar,2021
2	Two Week FDP on Python in association with spoken tutorial	IIT,Bombay	22 th June – 05 th July, 2020
3	One week FDP on Research aspects in modern analytics and cyber security	Jaypee institute of information technology, Noida	20 th July-24 th July,2020
4	One week FDP on Transforming Education with Industry 4.0	JUIT, Wagnaghat	15 th June-20 th June,2020
5	One week FDP on stress and health issues due to COVID -19	MAIT,Delhi	6 th July-10 th July,2020
6	One week faculty development program on Signal Processing and its applications	JSS Academy of Technical Education,Noida	23 rd April-28 th April 2018
7	One week faculty development program on “Wireless Networks through ICT”	JSS Academy of Technical Education,Noida	02.05.2016 to 06.05.2016
8	One week STTP on Internet of things and data analytics	JSS Academy of Technical Education,Noida	2 nd Dec-8 th Dec,2020
9	Two weeks workshop on Industry 4.0 security and technological aspects	Jaypee institute of information technology, Noida	9 th August-21 st August,2021
10	One week STTP on cyber crime	JSS Academy of Technical Education,Noida	23 rd Nov.-29 th Nov.,2020
11	5-Days E-Symposium on Global Pandemic Outbreak: Role of Technology & Automation	JSS Academy of Technical Education,Noida	1 st June-5 th June,2020
12	Two week staff development program on Recent Trends In Wireless Communication & Techniques	Galgotia college of engineering and technology.	02.07.2012 to 15.07.2012
13	One week short term course on Speech and Image Processing	MSIT,New Delhi	17.12.2012 to 21.12.2012
14	Two days workshop on the topic National Workshop on Deployment & Use of NPTEL Courses	IIT Kanpur	30-31 October 2010
15	One week FDP on Cryptographic techniques	NITTTR Chandigarh	9-13 May 2022
16	Two weeks FDP on Quantam Computing	Jaypee Noida	July 2022

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Organizer of one week faculty development program on “Next Generation Wireless Systems &	JSSATE, Noida sponsored by AKTU, Lucknow	29.02.2016 to 05.03.2016	Organizer

	Standards”			
2	Organizing team member of ICCSEMS-2020	JSSATE, Noida	25-26 Sept.,2020	Organizer
3	Three weeks online STTP on cyber crime	JSSATE, Noida sponsored by AICTE	Oct.-Nov. 2020	Organizing secretary

vi. **Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)**

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Two weeks FDP on Emerging research trends in Computer science and IT	AICTE	8th June -19th June 2020
2	Two week ISTE workshop on “Computer Programming”	ISTE	20.05.2014 to 21.06.2014

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Introduction to R programming	COURSERA	10/07/2020	95%
2	Introduction to probability and data with R	COURSERA	23/07/2020	93%
3	Data Science for Engineers	NPTEL	Jan-Mar ,2020	-
4	Google data analytics Foundation: Data, data everywhere	COURSERA	2022	95%
5	Google data analytics: Ask questions to make data driven decisions	COURSERA	2022	94%

10. Collaboration with outside world

S.No.	Details	Role
1.	Springer Journal “Wireless Personal Communications”. The journal has indexing in SCIE (WoS,Scopus).	Reviewer
2.	Imaging Science Journal	Reviewer
3.	Cluster Computing Journal	Reviewer
4.	Technical program committee member at International Conference On Smart Sustainable Intelligent Computing And Applications (ICITETM-2020)	Reviewer
5.	Technical program committee member at International Conference MIDAS 2020 ,Springer	Reviewer

Dr. Rachna Jain

Associate Professor, Dept of CSE

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