FACULTY PROFILE

Department: Computer Science and Engineering

1. Personal Details

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

2. Experience

Total Experience in Years	Teaching: 19 Years	Industry: Nil	Research: 2 Years

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E. (Hons.)	ECE	2001	C.R. State College of Engg., Murthal	MDU, Rohtak
M.Tech.	IT	2009	GGSIPU,New Delhi	I.P. University,Delhi
Ph.D.	CSE	2019	MRIIRS,Faridabad	MRIIRS,Faridabad
Post Doc	NIL	NIL	NIL	NIL

4. Research & Publications

Papers Published in Web of Science indexed Journals	02	
Papers Published in SCOPUS indexed Journals	01	
Papers Published in other Journals	01	
Papers Presented in Conferences / Symposium	06	
Books / Book chapters Published	Deep Learning-Based Techniques to Identify COVID-19 Patients Using Medical Image Segmentation	
	Name of the book: Health Information Sciences Publisher: Springer Year of Publication:2021	
	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	
	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	

5. Research Guidance

PhD Guide? Give field & University	NIL	NIL
PhDs / Projects Guided	NIL	Projects at Master's Level: NIL Projects at Bachelor's Level: 25

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
NIL	NIL	NIL	NIL	NIL

ii. 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
2	An image processing device and system for screening of medical equipment	US patent no. 202111017848

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
NIL	NIL	NIL	NIL	NIL

7. Awards Received

Feedback	Received Outstanding Student Feedback Appreciation letter in the session 2017-18.

8. Publications

i. International 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	An QoS Aware Link Defined OLSR (LD-OLSR) Routing Protocol for MANETS	Rachna Jain, Indu Kashyap	**Wireless Personal Communications(SCIE)**	Issue 3,2019,pp. 1745-1758	Web of Science Indexed, Scopus Indexed	**1.2**	**Springer**

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,issues1,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 Energy Aware Link Stable Routing Protocols in MANETS	Rachna Jain, Indu Kashyap	2nd International Conference on Trends in Electronics and Informatics (ICOEI)	ISBN:978-1-5386-3570-4,pp 1176-1178	**Scopus**	-	**IEEE**
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 (ICCIIoT), 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	3rd international conference on 17th Jan 2016 at IIC ,New Delhi	-	-	-	-

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)	1st Mar-6th Mar,2021
2	Two Week FDP on Python in association with spoken tutorial	IIT,Bombay	22th June – 05th July, 2020
3	One week FDP on Research aspects in modern analytics and cyber security	JIIT ,Noida	20th July-24th July,2020
4	One week FDP on Transforming Education with Industry 4.0	JUIT, Waknaghat	15th June-20th June,2020
5	One week FDP on stress and health issues due to COVID -19	MAIT,Delhi	6thJuly-10th July,2020
6	One week faculty development program on Signal Processing and its applications	JSS Academy of Technical Education,Noida	23rd April-28th 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	2nd Dec-8th Dec,2020

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 & Standards"	JSSATE, Noida sponsored by AKTU, Lucknow	29.02.2016 to 05.03.2016	Organizer
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	-

10. Membership of Professional Bodies:

NIL

11. Any other information you will like to share about your professional experience

Dr. Rachna Jain

Assistant Professor, Dept of CSE

JSS Academy of Technical Education, Noida