JSS Mahavidyapeetha

JSS Academy of Technical Education, Noida

Department of Computer Science & Engineering.

FACULTY PROFILE

1. Personal Details

NAME	**Dr. SONALI MATHUR**	
DEPARTMENT	COMPUTER SCIENCE AND ENGINEERING	
DESIGNATION	ASSISTANT PROFESSOR	
PHONE	9811251170	
EMAIL ID	sonalimathur@jssaten.ac.in	
Date of Joining (JSSATEN)	16-03-2010	

2. Experience

Total Experience in Years: 20	Teaching: 18	Industry: - 02	Research: - 04

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	COMPUTER SCIENCE ENGINEERING	2001	M.J.P Rohilkhand University, Bareilly	M.J.P Rohilkhand University, Bareilly
M.Tech.	INFORMATION TECHNOLOGY	2007	Guru Gobind Singh Inderprastha University (GGSIPU), Kashmere Gate, New Delhi	Guru Gobind Singh Inderprastha University (GGSIPU), Kashmere Gate, New Delhi
Ph.D.	COMPUTER SCIENCE ENGINEERING	2021	Birla Institute of Technology (BIT), Mesra, Ranchi	Birla Institute of Technology (BIT), Mesra, Ranchi
Post Doc.	-	-	-	-

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 01	National: 00
Papers Published in SCOPUS indexed Journals	International: 05	National: 00
Papers Published in other Journals	International: 04	National: 00
Papers Presented in Conferences / Symposium	International: 03	National: 02
Books / Book chapters Published	1. Name of the book: **"TRANSFORMING HIGHER EDUCATION THROUGH DIGITALIZATION: INSIGHTS, TOOLS, AND TECHNIQUES"** Publisher: CRC Press, Taylor & Francis Group (ISBN: 978-0-367-67629-2) Year of Publication: 2021 2. Name of the book: **"DIGITALIZATION OF HIGHER EDUCATION USING CLOUD COMPUTING: IMPLICATIONS, RISK, AND CHALLENGES"** Publisher: CRC Press, Taylor & Francis Group (ISBN: 978-1-032-06613-4) Year of Publication: 2021	

5. Research Guidance

PhD Guide? Give field & University	No	University: NIL
PhDs / Projects Guided	Ph.D. Awarded: Guiding: NIL	Projects at Master's Level: - 10 Projects at Bachelor's Level: 22

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration in Years	Grant issuing authority/ Body / Organization
"**SMART DUSTBIN**" under Unnat Bharat Abhiyaan	1.5 Lakhs	20-08-2019	01	MHRD
"**AUTOMATED GREEN CORRIDOR FOR LIFE SAVING VEHICLES**" under Collaborative Research	03 Lakhs	March 2020	01	AKTU, Lucknow

and Innovation Program (CRIP) under TEQIP-III				

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	Reduce, Re-Cycle and Reuse (RRR) IoT Intelligence Waste Management System (Patent No. 202111001043)	Grant Date: 24.08.2021
2	Automated Green Corridor for Life Saving Vehicles (Patent No. 202011038836)	Filed & Published
3	Prediction Model for Assessing Performance of Academic Students (Patent No. 202011043363)	Filed & Published
4	Smart Dustbin - Sanitation & Solid-Liquid Waste Management (Patent No. 202011000793)	Filed & Published

iii. Consultancy

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

7. Awards Received

Awards "Best Paper Award"	-

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	"Optimizing OLAP Cube for Supporting Business Intelligence and Forecasting in Banking Sector"	**Sonali Mathur,** S.L. Gupta, & Payal Pahwa	Journal of Information Technology and Management (JITM)	Vol 13, Issue 1, 2021	**Scopus**	-	University of Tehran
2	"Enhancing Security in Banking Environment	**Sonali Mathur**, S.L. Gupta & Payal Pahwa	International Journal of Information Retrieval	Vol 10, Issue 4, 2020	**WoS (ESCI)**	0.03	IGI

	Using Business Intelligence"		Research (IJIRR)				
3	"Stress Analysis using Machine Learning Techniques"	Tanvi Sharma, Kakoli Banerjee, **Sonali Mathur**, Vikram Bali	International Journal of Advanced Science and Technology (IJAST)	Volume 29 Issue 3, 2020	**Scopus, Elsevier**	0.48	SERSC
4	"Data Warehouse Testing: A Step Toward s using Business Intelligence in Banking"	**Sonali Mathur**, S.L. Gupta & Payal Pahwa	International Journal of Recent Technology and Engineering (IJRTE)	Volume 8 Issue 4 2019	**Scopus**	1.0	BEIESP
5	"Data Warehouse Testing and Security : A Conspectus"	**Sonali Mathur**, Vikram Bali S.L. Gupta & Payal Pahwa	International Journal of Innovative Technology and Exploring Engin eering (IJITEE)	Volume 8 Issue 9 2019	**Scopus**	0.102	BEIESP
6	"A survey paper on location aware recommender system"	**Sonali Mathur** & Neha Bairagee	International Journal of Advanced Research in Computer Science and Software Engineering	Volume 6 Issue 7 2016	-	2.5	AA
7	"A Lifecycle based Testing of Data Warehouse 4 (12).	Shraddha Saxena & **Sonali Mathur**	Semantic Scholar International Journal	Volume 4 Issue 12 2014	-	-	SS
8	"Border security up gradation using data mining"	SS Prasad, **Sonali Mathur** & Sonal Sharma	International Journal of Soft Computing and Engineering	Volume 4 Issue 4 2014	-	1.0	BEIESP
9	"Classificatio n of Data Warehouse T esting Approaches	**Sonali Mathur**, S.L. Gupta & Payal Pahwa	International Journal of Computers & Technology	Volume 3 Issue 3a 2012		0.220	Khalsa

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
-	-	-	-	-	-	-	-

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	"Smart Traffic Management System using IoT Enabled Technology"	Vikram Bali, **Sonali Mathur**, Vishnu Sharma, & Dev Gaur	2nd International Conference on Advances in Computing, Communication Control and Networking (ICACCCN)	2020	**Scopus**	-	IEEE
2	"Enhancing Data Security Using Multi Factor Authentication"	**Sonali Mathur**, Ankit Mishra	International Conference on Intelligent Control and Computation for Smart Energy and Mechatronics Systems (ICCSEMS - 2020)	2020	-	-	JSSATE, Noida.
3	"Requirements Specifications Techniques and Tools"	**Sonali Mathur**	International Conference on Computational Intelligence and Emerging Power System	2007	-	-	Ajmer College of Engineering, Ajmer.
4	"Software Requirements Specification and Analysis"	**Sonali Mathur**	INDIA Com - 2006	2006	-	-	Bharti Vidyapeeth University Institute of Computer Application and Management, New Delhi.

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Attended Workshop on "Skills Necessary in a Post - Pandemic World	JSSATE, Noida	21.09.2021
2	Attended Workshop on "Diversity & Inclusion – How they enable learning	JSSATE, Noida	20.09.2021
3	Attended Workshop on "Introduction to MATLAB",	JSSATE, Noida	17.09.2021
4	One-week Faculty Development Program on "Digital Learning with Multidisciplinary Approaches"	JSSATE, Noida	2.06.2020 – 17.06.2020
5	One-week Faculty Development Program on "Recent Advances in Computer Science & Allied Domains (RACSAD 2020)"	Sharda University	8.06.2020 – 12.06.2020
6	Three Days International Webinar on "Qualtitative Research, Blogs Writing and Neuro Science in Outbreak of COVID-19"	JSSATE, Noida	0.05.2020 – 22.05.2020
7	Three Days Webinar on "Digital Era of Teaching"	Diksoochi Mysuru	1.05.2020 – 13.05.2020
8	One-week Short Term Course on " Internet of Things "	JSSATE, Noida in collaboration with NITTTR, Chandigarh.	6.08.2018 – 10.08.2018
9	One-week Faculty Development Program on " Soft Computing - Techniques, Tools and Applications "	JSSATE, Noida sponsored by AKTU, Lucknow.	1.06.2018 – 15.06.2018
10	One-week Faculty Development Program on " Industrial Automation with Robotics and 3D Printer"	JSSATE, Noida supported by TEQIP III.	4.06.2018 – 09.06.2018
11	One-week STC on "SCILAB Programming"	JSSATE, Noida in collaboration with NITTTR, Chandigarh	21.08.2017 – 25.08.2017.
12	One-week STC on "Earthquake Risk Management for Urban and Rural Housing"	JSSATE, Noida in collaboration with NITTTR, Chandigarh	05.06.2017 – 09.06.2017.
13	One-week STC on "Artificial Neural Network"	JSSATE, Noida in collaboration with NITTTR, Chandigarh	25.04.2016 – 29.04.2016.
14	One-week STC on "Effective Curriculum Development"	JSSATE, Noida in collaboration with NITTTR, Chandigarh	07.03.2016 – 11.03.2016.
15	One-week STC on "Instructional Planning and Delivery" at JSSATE, Noida in collaboration with NITTTR, Chandigarh from 11.05.2015 to 15.05.2015.	JSSATE, Noida in collaboration with NITTTR, Chandigarh	11.05.2015 – 15.05.2015.

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Series of Three Short Term Training Program (STTP) "Computer Forensics & Cyber Crime"	Department of Computer Science and Engineering, JSSATE, Noida	23.11.2020-19.12.2020	Organizing Committee
2	Intelligent Control and Computation for Smart Energy and Mechatronic Systems (ICCSEMS-20)	JSSATE, Noida	25.09.20 - 26.09.20	Organizing Committee
3	5-Day Global E-Symposium on “Global Pandemic Outbreak: Role of Technology and Automation”	Department of Computer Science and Engineering, JSSATE, Noida	01.06.2020-05.06.2020	Organizing Committee
4	5-Day Faculty Development Program (FDP) on "Soft-Computing: Techniques, Tools & Applications"	Department of Computer Science and Engineering, JSSATE, Noida	11.06.2018-15.06.2018	Organizing Committee
5	2-Day Workshop on “Big Data & Hadoop”	Department of Computer Science and Engineering, JSSATE, Noida	04.11.2015-05.11.2015	Coordinator
6	2-Day International Conference on “Cognitive Computing and Information Processing (CCIP)”	JSSATE, Noida	02.03.15 - 04.03.15	Organizing Committee

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	Online FDP on "Leadership & Excellence", AICTE, ATAL Academy	College of Engineering and Technology, Bhubaneswar (A Constituent College of BPUT,Odisha)).	22.09.2020 – 26.09.2020
2	Online FDP on "Smart Cities", AICTE, ATAL Academy	Punjab Engineering College (Deemed to be University), Chandigarh.	24.08.2020 – 28.08.2020

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	“Software Processes and Agile Practices”	University of Alberta	01 September 2020	100%
2	"Software Testing"	NPTEL, IIT, Kharagpur	February 2020.	80%

10. Membership of Professional Bodies:

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

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