




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Mathematics.



FACULTY PROFILE

1. Personal Details

NAME	Dr. RANU PANDEY	
DEPARTMENT	MATHEMATICS	
DESIGNATION	ASSISTANT PROFESSOR	
PHONE	9654400316	
EMAIL ID	ranupandey@jssaten.ac.in	
Date of Joining (JSSATEN)	1-09-2011	

2. Experience

Total Experience in Years: 13+	Teaching: 13+	Industry: - Nil	Research:
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc.	PCM	2005	International College for Girls, Jaipur.	University of Rajasthan, Jaipur
M.Sc.	Applied Mathematics	2007	University of Rajasthan, Jaipur	University of Rajasthan, Jaipur
M.Phil.	Non-Newtonian fluid Dynamics	2008	M.Phil.	Non-Newtonian fluid Dynamics
Ph.D.	Real Situation Information Based Reliability Modelling and Analysis of a Technological System	2020	Bhagwant University, Ajmer, Rajasthan.	Bhagwant University, Ajmer, Rajasthan.
Post Doc.	-	-	-	-

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 01	National: 00
Papers Published in SCOPUS indexed Journals	International: 02	National: 00
Papers Published in other Journals	International: 03	National: 01
Papers Presented in Conferences / Symposium	International: 04	National: 02
Books / Book chapters Published	1.Name of the book: “Differential Equations” Publisher: Bookland Publications, Kolkata (ISBN: 978-81-943378-2-9) Year of Publication: 2020	

5. Research Guidance: NIL

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

6. Grants

i. Funds Received (Projects): NIL

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

ii. Patents: 1

Sl. No.	Title Details	Details of award of patent / Published
1	A Lagrange and Poisson Distribution Based Method Controlled with Artificial Neural Network for various utilities	App. No. 202311004609 A Pub. Date -10/02/2023

iii. Consultancy: NIL

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

7. Awards Received

Achievements/Awards “Best Paper Award”	<p>1. Delivered lecture as a speaker in one-week international FDP on “Applicability of Mathematical Sciences in emerging world” organised by Sathyabama Institute of Science and Technology, Chennai from 07th-12th August, 2023.</p> <p>2. The paper entitled “Comparative Analysis of reliability models of an electric wire (33 KV) used in metro railways under inspection policy”, in the national Seminar “Mathematical Sciences: Repositories of Logical Thoughts and Analytical Tools” organized by CCS Haryana Agricultural University, Hisar on 22nd December 2020.</p> <p>3. The paper entitled “Modelling and availability analysis using single unit power cable in Metro railways”, in 2nd International Conference “ICSCMM-2018” conference at KIET, Ghaziabad, U.P. during 22nd-23rd December, 2018.</p>
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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/ doi	Publisher
1	“A Tsallis-like effective exponential delay discounting model and its implications”	R. Pandey, S. Shukla, T. Bhattacharya	Physica A: Statistical Mechanics and its Applications	Vol. 603, October 2022, 127836	WoS, SCI, Scopus	3.36/https://doi.org/10.1016/j.physa.2022.127836	Elsevier
2	“Modelling and Reliability Analysis of Power Cables Used	R. Pandey, B. Parashar, V. Khemchandani	JOP	1770 (2021) 012089 April 2021	SCOPUS	doi:10.1088/1742-6596/1770/1/012089	JOP

	as a Two Unit Hot Standby System with Preference of Repair over Replacement in the Metro Railways”						
3	“Radiation effects on unsteady two-dimensional flow through a porous medium over a stretching sheet with slip boundary conditions”	V. Khemchandani, R. Pandey	International Journal for Research in Engineering Applications & Management	Vol. 5, Issue 4, July 2020, doi: 10.3529/2454-9150.2019.03		doi: 10.3529/2454-9150.2019.0309-	IJREAM
4	“Availability and Profit Analysis of Power Cables Used as a Two Unit Hot Standby System with Inspection in Metro Railways Network”	R. Pandey, B. Parashar, Ajay Gupta	Journal of Emerging Technologies and Innovative Research	Vol. 6, Issue 3, March 2020	-	-	JETIR
5	“Performance and Reliability Analysis of a Single Unit Power Cable with Inspection Policy in Metro Railways”	R. Pandey, B. Parashar, Ajay Gupta	International Journal for Research in Engineering Applications & Management	Vol. 4, Issue 9, December 2018,	SCOPUS	doi: 10.18231/2454-9150.2018.1196	-

6	“Stochastic Analysis of Reliability of Power Cables used as a Two unit Cold Standby System in Metro Railways”	R. Pandey, B. Parashar, Ajay Gupta, N. Bharadwaj	International Journal of Mathematical Archive	Vol. 9, Issue-5, 2018	UGC	-	-
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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
	“Reliability Models: A Comparative Study of a 2-unit Hot Standby Systems with and without Inspection Policy”	R. Pandey	Mathematical Sciences for Applied and Agricultural Research	February 2022 (Presented)			CCSH Agricultural University, Hisar
1	“Comparative Study Under Inspection Policy of the Reliability Models of 33 KV Supply Wire used in Metro Railways”	R. Pandey, B. Parashar, V. Khemchandani, N. Bharadwaj	Role of Applied Statistical Techniques in Interdisciplinary Research-RRAST-2020	ISBN: 978-620-4-18183-7, September 2021			LAP Lambert Academic Publishing (Book Chapter)

2	Young Adults “Stigmatizing Attitude Towards Covid-19 Survivors (Friends vs Peers): Findings from the Indian Cohort”	S. Shukla, R. Pandey	Association for Psychological Science, U.S.A.	26-27th May 2021.			Virtual Convention APS (Poster)
3	“Modelling and Reliability Analysis of Power Cables Used as a Two Unit Hot Standby System with Preference of Repair over Replacement in the Metro Railways”	R. Pandey , B. Parashar, V. Khemchanda ni, N. Bharadwaj	International Conference on Mathematical Sciences (ICMS-2020), organized by Sathyabhama institute of Science and Technology, Chennai	1770 (2021) 012089, April 2021, doi:10.1088/1742-6596/1770/1/012089	Scopus		Journal of Physics
4	“Comparative Analysis of reliability models of an electric wire (33 KV) used in metro railways under inspection policy”	R. Pandey , B. Parashar, V. Khemchanda ni, N. Bharadwaj	“Mathematical Sciences: Repositories of Logical Thoughts and Analytical Tools” organized by CCS Haryana Agricultural University, Hisar and sponsored by DST, Haryana on 22nd December 2020.	AS 25, UIN:1665, Pg. 62, NMD-2020			NMD (Book Chapter)

5	“With the Inspection Policy Availability Analysis of Cables Used as a 2- Unit Cold Standby System in Metro Railways”	R. Pandey, B. Parashar	2nd National Conference on Advance Research in Computer Science & Engineering (ARCSE - 2019)	Vol. 3, Issue 4, July 2019			International Journal for Research in Engineering Applications & Management
6	“Modelling and Availability Analysis using Single Unit Power Cable in Metro Railways”	R. Pandey, B. Parashar	ICSCMM-2018,	Vol. 11, Issue 2, March 2019			International Transactions in Mathematical Sciences and Computers ITMSC
7	“Reliability Modelling and Availability Analysis of Power Cables Used as a Two Unit Hot Standby System in Metro Railways”	R. Pandey, B. Parashar, V. Khemchanda ni	ICRIEECE-2018, KIIT, Odisha.	July 2018	Scopus	attended	IEEE

iv. FDP/Workshops/Seminars Attended

Sl. No.	Name of the FDP/workshop / Conference	Organizer	Date
1	Attended one week International FDP on “Applicability of Mathematical Sciences in emerging world” by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai.	Sathyabama Institute of Science and Technology, Chennai	07-08-23 to 12-08-23
2	One week FDP “Curriculum Design and Evaluation” by Curriculum Development Centre Department at NITTTR Chandigarh.	NITTTR, Chandigarh	24-04-23 to 28-04-23
3	Attended one-week International FDP “Innovative Mathematical Techniques in Research” conducted by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai.	Sathyabama Institute of Science and Technology, Chennai.	01-08-22 to 06-08-22
4	One-week online FDP on “Cyber Crime and Forensic Tools”	NITTTR, Chandigarh	23-05-22 to 27-05-22
5	Two weeks online FDP on “a2z of NBA Accreditation Process” under IQUAC.	IPEC, Ghaziabad, AICTE sponsored	24-08-21 to 9-08-21
6	Two weeks FDP on “Application of Digital Tools and Technology in teaching and Learning”	Indira Gandhi Tribal University, Amarkantak, MP	16-06-20 to 29-06-20
7	One week FDP on “Applications of Mathematics in Engineering and Sciences” approved by AICTE	of Humanities and Sciences, Sri Venkateswara Institute of Science and Technology	20-07-20 to 25-07-20
8	One-week National Level Online Short Time Training Program on "MATLAB for ALL"	Department of Electrical and Electronics Engineering, SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bangalore-562157	4-06-20 to 8-06-20
9	One Day Workshop on “Implementation Challenges of RFID Technology & LMS	JSSATE Noida	6-08-19

	Integration” organized by Library & Information Center, JSSATE Noida & M/s Rapid Radio Solutions Pvt. Ltd. Ahmadabad.		
10	One week FDP on “Applications of GIS and Remote Sensing in Civil Engineering”, sponsored by AKTU	JSSATE Noida	21-05-18 to 25-05-18
11	Two-week FDP on “UHVPE” conducted by AKTU	JSSATE, NOIDA	19-12-2017 to 27-12-17
12	Two-week FDP on “CMOS, Mixed Signal and VLSI design” conducted by IIT, Kharagpur	MGM, Ghaziabad	30-02-17 to 4-02-17
13	One week FDP on “Advances on OFC Technology” conducted by NITTTR	JSSATE Noida	19-12-16 to 23-12-16
14	18th International Workshop on Electronic Theses “Evolving genre of ETD for Knowledge Discovery”	JNU, New Delhi, India	4-11-15 to 6-11-15
15	Short Term Course on “Technical Teachers Role, Self Esteem, Motivation and Professionalism Development through ICT” conducted by NITTTR, Chandigarh	JSSATE, NOIDA	June 2015
16	Workshop on “Advanced optimization Techniques” – Department of Mathematics, Jaypee Institute of Information Technology, Noida	IIIT, Noida	23-09-14

v. Workshops / Conference/Guest Lecture (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Organized webinar on “Mathematics in Quantum Computation” by an alumnus Mr. Aman Gupta, M.Sc. Physics, IIT Roorkee, Quantum Research Associate,	Department of Mathematics & JSSATE, NOIDA Alumni Association	16-09-23	Coordinator

	Qulabs, Pvt. Ltd., Hyderabad			
2	Organized guest lecture for B.Tech. First Year on “Digital Metamorphosis: Transforming Academic Landscape in the post pandemic world” by an international speaker Mr. Prashant Pandey (Alumnus), Director of Library Sciences (IT), Flinders University, Adelaide, South Australia.	Department of Mathematics & JSSATE, NOIDA Alumni Association	24-11-22	Main Stage & Faculty Coordinator
3	Organized Guest Lecture on “Latest trends on IT” by an international speaker Mr. Saurabh Pandey, Asst. director, Dept. of Defense, Canberra, Australia.	Department of Mathematics & JSSATE, NOIDA Alumni Association	2 nd September 2022	Faculty coordinator & emcee stage
4	Two day workshop on “Effective Teaching and Learning” in collaboration with IIT, Guwahati	JSSATE, NOIDA	18-06-22 to 20-06-22	Faculty Coordinator & emcee stage
5	In commemoration of 106th Jayanthi celebration, the four online national Conference organized in series Advances in Smart building, Trenchless	JSSATE, Noida in collaboration with the CONSTRUCTION INDUSTRY DEVELOPMENT COUNCIL, NEW DELHI and JSSATE-STEP	23-09-21 to 24-09-21 & 27-09-21 to 28-09-21	Main Stage Coordinator-Member Inaugural Committee

	<p>Technology & Intelligent Materials in Manufacturing- nCASTTIM by ME & CE deptt.</p> <p>Smart Energy, VLSI and Embedded Systems- NCSEVES-2021 by EC, EE, EEE.</p> <p>Strategies for Sustainable Practices: During & Post Covid Era by MBA and Recent Innovations in Computing Technologies- NCRICT-2021 by CS/IT.</p>			
6	International Webinar- Introduction to MATLAB	Department of mathematics, JSSATE, Noida	17-09- 21	Organizing committee member
7	International conference “ICCSEMS 2020”, sponsored by AICTE	JSSATE, Noida	25-09-20 to 26-09--20	Organizing committee member- Stage Main coordinator
8	Webinar-The Universe and Mathematical Modelling	Department of mathematics, JSSATE, Noida	11-06-20	Organizing committee member
9	National Conference “NCSES-2019”, sponsored by AICTE	JSSATE, Noida	14-06-19 to 15-09-19	Organizing committee member- Stage Main coordinator
10	Grand Finale-SIH 2019, software edition	JSSATE, Noida	02-03-19 to 03-03-19	organizing committee member and Stage coordinator MC
11	SMART INDIA HACKATHON, AICTE	JSSATE, Noida	30-03-18 to 31-03-18	Organizing committee member- Stage Main coordinator

12	INSPIRE Science Camp, sponsored by DST	JSSATE, Noida	26-12-2016 to 30-12-2016	MC, Stage committee
13	International Conference- "CCIP 2015"	JSSATE, Noida	02-03-15 to 04-03-15	Organizing committee member- Stage Main coordinator

vi. Other Responsibilities

Sl. No.	Name of the event	Organizer	Date
1	Main Stage and Stage Committee, Induction and Orientation Programme-First-Year AY 2022-23	JSSATE, NOIDA	18-11-2022
1	Convener, stage committee	Zonal Sports Meet, Noida	14 th -15 th September 2022
2	Program Facilitator- Inauguration of JSAATEN-Industry Convention 5.0-2022 and CoE of Solar Photovoltaic Systems	JSSATE, NOIDA	22-08-22
3	Editor- MATHEMATRIX, newsletter	Department of Mathematics	First release, 27 th March 2022
4	Member in the Exam Cell (External) AKTU Examination 2019-20 odd semester	JSSATE, NOIDA	December 20
5	Convener in Stage Committee annual sports meet "MYTHRI-2019"	JSSATE, NOIDA	September 2019

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
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1	Introduction to AI by IBM	COURSERA	November 2022	89.72%
2	Matrix Algebra for Engineers (4 weeks)	COURSERA	January 2021	97%
3	Vector Calculus for Engineers (4 weeks)	COURSERA	July 2020	95%
4	Transform Calculus (12 weeks)	NPTEL	Jan-April 2020	95%
5	Mathematical Methods & its applications (12 weeks)	NPTEL	Jan-April 2019	65%
6	Multivariable Calculus (8 weeks)	NPTEL	Jan-April 2018	63%

10. Membership of Professional Bodies: NIL

Laerd Statistics Membership

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

- Editor of the department newsletter “**MATHEMATRIX**”

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