




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



FACULTY PROFILE

Department: Mathematics

1. Personal Details

NAME	Dr. BHUPENDER PARASHAR	
DEPARTMENT	MATHEMATICS	
DESIGNATION	ASSOCIATE PROFESSOR & HoD	
PHONE	9810994996	
EMAIL ID	parashar_b@jssaten.ac.in	
Date of Joining (JSSATEN)	17-10-2000	

2. Experience

Total Experience in Years	Teaching: 23 Years	Industry: - Nil	Research: - 17
---------------------------	--------------------	-----------------	----------------

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc.	Maths, Physics, Statistics	1995	University College, Rohtak, Haryana	Maharshi Dayanand University, Rohtak, Haryana
M.Sc.	Operations Research	1997	Maharshi Dayanand University, Rohtak, Haryana	Maharshi Dayanand University, Rohtak, Haryana
Ph.D.	Reliability Modeling and Analysis	2006	Maharshi Dayanand University, Rohtak, Haryana	Maharshi Dayanand University, Rohtak, Haryana

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 05	National: 00
Papers Published in SCOPUS indexed Journals	International: 07	National: 00
Papers Published in other Journals	International: 09	National: 05
Papers Presented in Conferences / Symposium	International: 02	National: 07
Books / Book chapters Published	<p>Name of the book: Operations Research - Models & Methods Publisher: Universities Press Year of Publication: 2014</p> <p>Name of the book: Engineering Mathematics (Vol. I) Publisher: Suhavi Publications, New Delhi Year of Publication: 2011</p> <p>Name of the book: Discrete Mathematics Publisher: Paragon International Publishers, New Delhi Year of Publication: 2010</p> <p>Name of the book: Engineering Mathematics (Vol. III) Publisher: Suhavi Publications, New Delhi Year of Publication: 2010</p>	

5. Research Guidance

PhD Guide? Give field & University	Yes, Reliability Modeling and Analysis	University: 1. DCRUST, Murthal, Sonipat, Haryana 2. Bhagwant University, Ajmer, Rajasthan
PhDs / Projects Guided	Ph.D. Awarded: 02 (Two)	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:

Sl. No.	Title Details	Details of award of patent / Filed
1	A Lagrange and Poisson Distribution Based Method Controlled with Artificial Neural Network for Various Utilities	Application No.202311004609 A Date of file : 24/01/2023 Publication Date : 10/02/2023 Name of Applicant : 1) JSS Academy of Technical Education, Noida Name of Inventor : 1) Dr. Abhinav Saxena 2) Dr. Ranu Pandey 3) Dr. Vinita Khemchandani 4) Dr. Parveen Poon Terang 5) Dr. Bhupender Parashar
2	Development of eco-friendly and sustainable concrete using imperial smelting furnace slag, construction and demolition waste, waste marble powder and metakaolin	Application No. 202311000421 Field of invention – Chemistry Date of File : 3/1/23 Publication date - 13/1/23 Name of Inventor : AMIT TRIPATHI , Dr. S. Varadharajan, Mr. Prasad Bishetti, Mr. Bishnu Kant Shukla, Dr. S.V.Kirthanashri, Mr. Parikshit Hurukadli, Mr. Gaurav Bharti, Mr. Animesh Kumar Jaiswal, Mr. Danish Irfan, Ms. Ayushi Bhati, Mr. Shamanth S, Ms. Jyothi C Nagavi, Dr. Shwetambara Verma, Dr Gaurav Jain, Dr. Bhupender Parashar , Mr. Mohit Gupta
3	Development of eco-friendly concrete using industrial waste such as flyash, imperial smelting furnace slag, stone dust, hooked steel fibre	Application No. 202311000219 Field of invention – Chemistry Date of File : 3/1/23 Publication date - 13/1/23 Name of Inventor : AMIT TRIPATHI , Dr. S. Varadharajan, Mr. Bishnu Kant Shukla, Dr. S.V.Kirthanashri, Mr. Parikshit Hurukadli, Mr. Prasad Bishetti, Mr. Gaurav Bharti, Mr. Animesh Kumar Jaiswal, Mr. Bharath B, Mr. Shamanth S, Ms. Jyothi C Nagavi, Dr. Shwetambara Verma, Dr Gaurav Jain, Dr. Bhupender Parashar , Mr. Asit Singh, Mr. Mohit Gupta

ii. Consultancy: NIL

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

7. Awards Received

Received Appreciation Award from AKTU on 26th July 2019 on its First Founder's Day for outstanding and long services to the University.

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	Neural Network Auto Regression and Classical Time Series Approaches for Rice Yield Forecasting	Nitin Bhardwaj, P.K. Muhammed Jaslam, Dr Bhupender Parashar , Jitender Kumar Bhatia, Salinder	The Journal of Animal and Plant Sciences (JAPS)	31 (4) 2021	Both	0.59	Pakistan Agricultural Scientists Forum https://doi.org/10.36899/JAPS.2021.4.0310
2	Computational Study Reliability of Diesel Engine through Electrical Assembly	Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, Dr Bhupender Parashar , Mohit Kumar Kakkar, Jasdev Bhatti	The International Journal of Integrated Engineering	ISSN : 2229-838X e-ISSN : 2600-7916, VOL. 13 NO. 6 (2021) 156-165	Both	0.85	UTHM Malaysia, https://doi.org/10.30880/ijie.2021.13.06.015
3	Modelling and Reliability Analysis of Power Cables Used as a	Ranu Pandey, Dr Bhupender Parashar , Vinita Khemchandani, Nitin Bhardwaj,	Journal of Physics Conference Series	1770 (2021) 012089	Scopus	-	IOP Science doi:10.1088/1742-6596/17

	Two Unit Hot Standby System with Preference of Repair over Replacement in the Metro Railways	Prashant Pandey					70/1/01 2089
4	Estimation of lifespan of diesel locomotive engine	Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, Dr Bhupender Parashar	Journal of Information and Optimization Sciences	Vol. 40 (2019), No.5	WoS	-	Taylor & Francis group DOI: 10.1080/02522667.2019.1641895
5	Availability and Profit Analysis of Power Cables Used as a Two Unit Hot Standby System with Inspection in Metro Railways Network	Ranu Pandey, Dr Bhupender Parashar , Ajay Kumar Gupta	Journal of Emerging Technologies and Innovative Research (JETIR)	Vol 6, Issue 3, March 2019	-	-	I J Publications
6	Modelling and Availability Analysis using Single Unit Power Cable in Metro Railways	Ranu Pandey, Dr Bhupender Parashar , Ajay Kumar Gupta	International Transactions in Mathematical Sciences and Computers (ITMSC)	Volume: 11 (2), 2018	-	-	AACS
7	Performance and Reliability Analysis of a Single Unit Power Cable	Ranu Pandey, Dr Bhupender Parashar , Ajay Kumar Gupta	International Journal for Research in Engineering Application & Management	Vol-04, Issue-09, Dec 2018	-	-	IJREAM Publishing House

	with Inspection Policy in Metro Railways		(IJREAM)				
8	Stochastic Analysis of Reliability of Power Cables used as a Two-unit Cold Standby System in Metro Railways	Ranu Pandey, Dr Bhupender Parashar , Ajay Kumar Gupta, Nitin Bhardwaj	International Journal of Mathematical Archive (IJMA)	9(5), April 2018	-	-	Scientific Research
9	Probabilistic analysis of a 3-unit induced draft fan system with one warm standby with priority to repair of the unit in working state	Anjali Naithani, P. K. Bhatia, Dr Bhupender Parashar , Gulshan Taneja	Springer's International Journal of System Assurance Engineering and Management	8(Suppl. 2) 2017	Both	-	Springer's DOI 10.1007/s13198-017-0608-6 (2017)
10	Stochastic Analysis of Standby System with Different failure	Nitin Bhardwaj, Naresh Sharma, Jasdev Bhatti, Dr Bhupender Parashar	International Journal of Applied Engineering Research	Vol. 10 No.35 (2015)	-	-	Research India Publication
11	Cost Benefit Analysis of a 2-Out-of-3 Induced Draft Fans System with Priority for Operation to Cold Standby	Anjali Naithani, P. K. Bhatia, Dr Bhupender Parashar , Gulshan Taneja	AMO – Advanced Modelling and Optimization	Volume 15, Number 2, 2013	-	-	

	over Working at Reduced Capacity						
12	A Comparative Study of Profit Analysis of Two Reliability Models on a 2-unit PLC System	Dr Bhupender Parashar , Nitin Bhardwaj	International Journal of Scientific & Engineering Research	Volume 4, Issue 4, April-2013	-	-	IJSER Publication
13	Analysis of a 3-Unit (Induced Draft Fan) System with One Warm Standby	Anjali Naithani, P. K. Bhatia, Dr Bhupender Parashar , Gulshan Taneja	International Journal of Engineering Science & Technology	Vol. 4 No. 11, November 2012	-	-	
14	Reliability Modelling of a 3-Unit (Induced Draft Fan) Cold Standby System Working at Full/Reduced Capacity	Anjali Naithani, P. K. Bhatia, Dr Bhupender Parashar , Gulshan Taneja	International Journal of Mathematical Archive	3(10) Oct. 2012	-	-	Scientific Research
15	Statistical Comparative Study of Profit Analysis of Two Different Models for Two Unit PLC Systems	Dr Bhupender Parashar	IFRSA's International Journal of Computing	Vol. 1, Issue 2 April 2011	-	-	
16	Reliability and Profit Evaluation	Dr Bhupender Parashar , G. Taneja	IEEE Transactions on Reliability	Vol. 56, No. 3, September	Both	4.424	IEEE

	of a PLC Hot Standby System Based on Master-Slave Concept and Two Types of Repair Facility			2007			
--	--	--	--	------	--	--	--

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	Stochastic Reliability Analysis of Two Identical Cold Stand by Units with Geometric Failure & Repair Rates	Nitin Bhardwaj, Dr Bhupender Parashar	Mathematical Journal of Interdisciplinary Sciences	Vol-5, No-2, March 2017	-	-	Chitkara University
2	Applications of Applied Mathematics in Information & Communication Technology – A Case study of B.Tech. students of U.P.Tech. University results of CSE, IT and EC branches in JSSATE, Noida	P C Agrawal, Dr Bhupender Parashar	Journal of the Indian Society of Statistics and Operations Research	Vol. XXVIII, No.1-4 Dec. 2007	-	-	PAMS
3	An algorithm to find channel capacity for (r,s) entropy	Hari Arora, Dr Bhupender Parashar , Priti Gupta	Journal of the Indian Society of Statistics and Operations Research	Vol. XXVII, No. 1 – 4 December 2006	-	-	PAMS

4	Probabilistic Analysis of a PLC Hot Standby System with Three Types of Failure and Two Types of Repair Facility	R K Tuteja, Gulshan Taneja, Dr Bhupender Parashar	Journal Pure and Applied Matematika Sciences	Vol. LXIV, No.1-2 September 2006	-	-	PAMS
5	Analysis of a PLC Hot Standby System with Single Repair Facility Irrespective of Type of Failure	R K Tuteja, Gulshan Taneja, Dr Bhupender Parashar	Journal of the Indian Society of Statistics and Operations Research	December 2005, Vol. XXVI, No. 1 – 4	-	-	PAMS

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	An Experimental Study on Design Mixes of Pervious Concrete for Optimum Compressive Strength	Bishnu Kant Shukla, Aparupa Shenoy, Bhupender Parashar , Ashish Kumar, Pushpendra Kumar Sharma	International Conference on Materials for Emerging Technologies (ICMET-2021), 18-19 Feb 2022 at Lovely Professional University G.T. Road Phagwara Punjab (India)	Sept. 2023	Scopus		AIP, https://doi.org/10.1063/5.0162694
2	Experimental Study on Physico-Mechanical Properties of Expansive Soil by Using Wheat Straw Fiber	Gaurav Bharti, Bishnu Kant Shukla, Bhupender Parashar , Ashish Kumar, S Varadharajan	International Conference on Materials for Emerging Technologies (ICMET-2021), 18-19 Feb 2022 at Lovely Professional University G.T. Road Phagwara Punjab (India)	Sept. 2023	Scopus		AIP, https://doi.org/10.1063/5.0163437

3	A Sustainable Design of Energy Efficient and Environment Friendly Residential Building for Tropical Climate	Bishnu Kant Shukla, Bhupender Parashar , Gaurav Bharti, Pushpendra Kumar Sharma, Ashish Kumar	International Conference on Materials for Emerging Technologies (ICMET-2021), 18-19 Feb 2022 at Lovely Professional University G.T. Road Phagwara Punjab (India)	Sept. 2023	Scopus		AIP, https://doi.org/10.1063/5.0162700
4	Reliability Models: A Comparative Study of a 2-Unit Hot Standby Systems with and without Inspection Policy	Ranu Pandey, Bhupender Parashar , Vinita Khemchandani and Nitin Bharadwaj	National Conference on Mathematical Sciences for Applied and Agricultural Research, CCS Haryana, Hisar	February 22, 2022			CCS HAU Hisar, Haryana
5	Computational Elucidation of an Unsteady Boundary Lamina Flow with the Heat Transfer Effects Adjoining to an Extending Sheet via a Permeable Channel	Vinita Khemchandani, Ranu Pandey, Bhupender Parashar and Nitin Bharadwaj	National Conference on Mathematical Sciences for Applied and Agricultural Research, CCS Haryana, Hisar	February 22, 2022			CCS HAU Hisar, Haryana
6	Comparative Analysis of reliability models of an electric wire (33 KV) used in metro railways under inspection policy	Ranu Pandey, Dr Bhupender Parashar , Vinita Khemchandani, Nitin Bhardwaj	National Conference on Mathematical Sciences: Repositories of Logical Thoughts and Analytical Tools” organised by CCS Haryana Agricultural University, Hisar and sponsored by DST, Haryana	22nd Dec 2020	-	-	-
7	Imperfect Maintenance Modelling for Sequential Corrective & Preventive Maintenance	Sunil Bhardwaj, Nitin Bhardwaj, Vijay Kumar, Dr Bhupender Parashar	National Conference on Applied Sciences and Mathematics (NCASM-20) at Chitkara University	24th-25th Sept 2020 Punjab (India)	Scopus	-	AIP Proceedings (2022), https://doi.org/10.1063/5.0080592

8	Principal Component Analysis for the Assessment of Genetic Diversity	Nitin Bhardwaj, Ajay Kumar, Deepankar, Dr Bhupender Parashar , P.K. Muhammed Jaslam	National Conference on Applied Sciences and Mathematics (NCASM-20) at Chitkara University	24th-25th Sept 2020 Punjab (India)	Scopus	-	AIP Proceedings (2022), https://doi.org/10.1063/5.0080566
9	With the Inspection Policy Availability Analysis of Cables Used as a 2- Unit Cold Standby System in Metro Railways	Ranu Pandey, Dr Bhupender Parashar , A K Gupta	2nd National Conference on Advance Research in Computer Science & Engineering (ARCSE - 2019)	4 th & 5 th Sept 2019, Vol.3, Issue 4, Pgs. 6-11, ISSN No. (Online): 2395-4396.			Published in International Journal of Advance Research & Innovative Ideas in Education (IJARIE), Conference Issue
10	Reliability Modelling and Availability Analysis of Power Cables Used as a Two Unit Hot Standby System in Metro Railways	Ranu Pandey, Bhupender Parashar , Vinita Khemchandani, Prashant Pandey	IEEE-International Conference On Recent Innovations In Electrical, Electronics & Communication Engineering - (ICRIEECE)	July 2018			KIIT University, Bhubaneswar, Odisha, India
11	Reliability Analysis of Two Dissimilar parallel unit system with the provision of Instantaneous Replacement of a Low-cost unit	Mohit Kakkar, Nitin Bhardwaj, Bhupender Parashar , Naresh Sharma, Jasdev Bhatti	2nd International Conference on Recent Developments in Science, Engineering and Technology (REDSET-2015)	30-31 October 2015, pp-472-475			organized by the School of Engineering, GD Goenka University, Haryana (India)
12	Reliability and Profit Analysis of A PLC Hot Standby System with Master-Slave Concept and Provision of Single Repair	R K Tuteja, Gulshan Taneja, Bhupender Parashar	9th National Conference of Indian Society of Information Theory & Applications (ISITA)	December 8-9, 2007			GSBA, Greater Noida.

13	Reliability and Profit Evaluation of a PLC Hot Standby System Based on Master-Slave Concept and Two Types of Repair Facility	R K Tuteja, Gulshan Taneja, Dr Bhupender Parashar	National level conference conducted by ISITA at NC College of Engineering, Panipat	March 2006	-	-	-
14	Analysis of a Two Unit Hot Standby System with Three Types of Failures	R K Tuteja, Gulshan Taneja, Dr Bhupender Parashar	National Conference on Applications of Mathematics in Engineering & Technology, organised by ISITA at MIMIT, Malout (Punjab)	March 2005	-	-	-

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Fourth International Conference on Quality, Reliability and Infocom Technology	University of Delhi	Dec. 18-20, 2009
2	40 th Annual Convention of Operations Research Society of India (A Golden Jubilee Celebrations of ORSI)	Indian National Science Academy, New Delhi.	December 04-06, 2007

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Short Term Course on Operations Research through ICT	NITTTR & JSSATE Noida	28 March 2016 to 1 April 2016	Course Co-ordinator
2	One day National webinar on the topic “The Universe and Mathematical Modelling”	JSSATEN	11 June 2020	Convener

3	One day International webinar on the topic “Introduction to MATLAB”	JSSATEN	17 September 2021	Convener
---	---	---------	-------------------	----------

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	Participated in Two week FDP/ Training Programme “An Experience With Research Methodology on Statistical Programming in R”	Research Foundation of India & RFI - CARE	20-29 May 2023
2	Attended One Week Online Workshop on “Advance Statistical Data Analysis using SPSS”	Uttar Pradesh University of Medical Sciences (As per UP Government Act No 15 of 2016 to provide for establishment of a Medical Sciences University) Saifai Etawah, UP, India & Science Tech Institute, Lucknow	21-27 Jan 2023
3	Attended UGC approved Professional Development Programme on ‘Implementation of NEP2020 for University and College Teachers’”	INDIRA GANDHI NATIONAL OPEN UNIVERSITY, Staff Training and Research Institute of Distance Education	5-13 Dec 2022
4	Journal Citation Reports (JCR) Training & Certification Program 2021	Clarivate	15 and 17 June 2021
5	Attended FDP on “Machine Learning & Its Applications”	E&ICT Academy IIT Roorkee	05-14 May 2020
6	Three Days Workshop “Executive Leadership Program”	AKTU under TEQIP-III at Kosi, Mathura, U.P.	19 – 21 July 2019
7	Attended FDP “Effective and Innovative Ways of Teaching and Learning Strategies”	JSSATE Noida	11-15 June 2018

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Data Science – Maths Skills	Coursera	July 2021	100%
2	Vector Calculus for Engineers	Coursera	July 2020	95%
3	Matrix Algebra for Engineers	Coursera	July 2020	100%
4	Introduction to Calculus	Coursera	August 2020	100%
5	Introduction to Ordinary Differential Equations	Coursera	August 2020	100%
6	Business Statistics	NPTEL	Jan-April 2019	69%
7	Operations Research	NPTEL	July-Sept 2019	94%
8	Introduction to Probability and Statistics	NPTEL	Jan-April 2020	Assignments (100%), External exam not held due to COVID'19

10. Membership of Professional Bodies:

1. Indian Society of Information Theory & Applications (ISITA) – Life Membership
2. The Indian Mathematical Society (IMS) - Life Membership
3. The Indian Science Congress Association (ISCA) - Life Membership

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