



CURRICULUM VITAE

	<p>Dr. SUNIL DUTT PUROHIT Associate Professor (Mathematics) Department of Humanities, English & Applied Sciences University Departments Rajasthan Technical University, Kota, INDIA-324010 Email: sdpurohit@rtu.ac.in ; Mob.: +91-9413954828 Homepage: https://scholar.google.com/citations?user=xulWCgEAAAAJ&hl=en&oi=ao</p>	
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Educational Qualification

Qualification	Institute Name	Completion Date
Ph.D.	J. N. Vyas University, Joshpur	August 5, 2005
M.Sc.	J. N. Vyas University, Joshpur	2001
B.Sc.	J. N. Vyas University, Joshpur	1999
12 th	Amar Saheed Sagarmal Gopa Senior Secondary School, Jaisalmer	1996
10 th	Amar Saheed Sagarmal Gopa Senior Secondary School, Jaisalmer	1994

Awards and Recognitions

Awarded University Gold Medal for being topper in M.Sc. Mathematics	2001
CSIR-NET, June 2002	2002
Awarded JRF of Council of Scientific and Industrial Research for two years	Jan. 2003 to Dec. 2004
Awarded SRF of Council of Scientific and Industrial Research	Jan. 2005 to March 2006
"A.K. Agarwal Best Publication Prize 2013" of Society for Special Functions and their Applications (SSFA) during Dec. 13-15, 2013	2013
Awarded Travel Grants to attend ICM 2010 at Hyderabad, India during August 19-27, 2010	2010
Awarded CSIR Foreign Partial Financial Assistance to attend international Workshop of Orthogonal Polynomials, Special Functions and their applications at Riyadh during 20 Feb 2013 to 21 Feb 2013	2013
Awarded NANUM 2014 Travel Grants to attend ICM 2014 at Seoul, Korea during August 13-21, 2014	2014
Awarded Open Arm Travel Grants to attend ICM 2018 at Rio De Janerio, Brazil during August 01-09, 2018	2018
Awarded Travel Grants to attend ICIAM 2019 at Valencia, Spain during July 15-19, 2019	2019
Certificate of Appreciation from Al-Balqa Applied University for research contribution	2020

Positions Hold at University

Associate Dean, Academic Affairs, RTU	Jan. 2017- Till Date
Associate Dean, Applied Science, RTU	July 2016-- Till Date

Member, Result Declaration Committee, RTU Kota	May 2015- Till Date
Member, Copy View Committee, RTU Kota	July 2016-- Till Date
Incharge, Mathematics Unit, Department of HEAS, UTD	May 2016-- Till Date
Convener, BOS (Applied Sconces), UD, RTU Kota	Oct. 2020- Till Date
Member, Academic Council, RTU, Kota	Oct. 2020- Till Date
Member, Faculty of Applied Sciences (FOAS), RTU, Kota	Jan. 2022-Till Date
Member, BOS HEAS, UD, RTU Kota	Aug. 2016- Till Date
Assistant Nodal Officer, NEP2020, RTU Kota	July. 2021- Till Date
Nodal Officer (Finance), TEQIP-III, UD	Aug. 2017—Jan. 2022
Member, BoM, RTU, Kota	Jan. 2018- Feb. 2019
Member, BOS (Applied Sconces), UD, RTU Kota	May 2017-Oct. 2020
Nodal Officer (Finance), TEQIP-II, UTD	July 2015-Sep. 2017
Co-coordinator, LEEP-2016	May 2016- Jan. 2017
Co-coordinator, Evaluation (Kota)	March 2015-Dec. 2016

Membership of Professional Bodies/ Societies

1.	Life Member, Indian Mathematical Society (IMS)
2	Life Member, Indian Science Congress Association, (ISCA)
3	Life Member, Indian Academy of Mathematics, (IAM)
4	Life Member, Society for Special Functions and their Applications (SSFA)
5	Life Member, Rajasthan Ganita Parishad (RGP)
6	Life Member, Forum for Advanced Training Education & Research (FATER)
7	Life Member, Soft Computing Research Society, India (SCRS)
8	Member, International Association of Engineers (IAENG)
9	Member, IAENG Society of Computer Science
10	Member, IAENG Society of Scientific Computing

Editorial Board Member in International Journals

- Member, Editorial Board, TWMS Journal of Applied and Engineering Mathematics (ESCI) (SCOPUS)
- Member, Editorial Board, Applications & Applied Mathematics: An International Journal (ESCI)
- Member, Editorial Board, Mathematics in Natural Science
- Member, Editorial Board, Journal of Fractional Calculus and Nonlinear Systems (JFCNS)
- Member, Editorial Board, Journal of Mathematical Analysis and Modeling (JMAM)

Conference/Workshop/FDP organized

1.	RTU(ATU), TEQIP-III International Conference on Communication and Computational Technologies (ICCCT21) at Rajasthan Institute of Engineering Technology, Jaipur, during February 27- 28, 2021.
2.	One week RTU(ATU), TEQIP-III Workshop on Universal Human Values & Professional Ethics at Shrinathji Institute of Engineering & Technology, Nathdwara during 16-20 February 2021.
3.	One week RTU(ATU), TEQIP-III Faculty Development Program on Computational Modelling in Mathematics at Poornima College of Engineering, Jaipur, during February 08- 12, 2021.
4.	RTU(ATU), TEQIP-III International Conference on Science & Computing (ICSC21) at Vivekananda Institute of Technology, Jaipur, during January 23- 24, 2021.
5.	Ten day RTU(ATU), TEQIP-III Student Workshop on Advanced Engineering Mathematics-I at Vivekananda Institute of Technology, Jaipur, during January 11- 21, 2021.
6.	Five day RTU(ATU), TEQIP-III Workshop on Research Methodologies & Data Analysis at Arya Institute of Engineering & Technology, Jaipur, during January 05-09, 2021.
7.	Three day RTU(ATU), TEQIP-III FDP on Latent Mathematics in Sanskrit Context at Poornima

	College of Engineering, Jaipur, during September 28-30, 2020.
8.	Five day RTU(ATU), TEQIP-III FDP on Applications of Mathematical Sciences in Engineering and Technology(AMSET) at SKIT, Jaipur, during September 23-27, 2020.
9.	One day UD, TEQIP-III Webinar on An Introduction to Hydrodynamic Stability Analysis at HEAS (Mathematics) Department, University Departments, Rajasthan Technical University, Kota, on September 06, 2020.
10.	One day UD, TEQIP-III Webinar on Application of Orthogonal Polynomials in Science and Engineering at HEAS (Mathematics) Department, University Departments, Rajasthan Technical University, Kota, on September 02, 2020.
11.	Five day RTU(ATU), TEQIP-III FDP on Applications of Optimization Techniques in Science and Engineering at B K Birla Institute of Engineering & Technology, Pilani, during August 23-27, 2020.
12.	One day UD, TEQIP-III Webinar on Applied Mathematical Problems in Engineering Problems at HEAS (Mathematics) Department, University Departments, Rajasthan Technical University, Kota, on August 25, 2020.
13.	Three days RTU(ATU), TEQIP-III FDP on Applications of Mathematical Modelling in Science and Engineering at Vivekananda Institute of Technology, Jaipur, during July 25-27, 2020.
14.	RTU(ATU), TEQIP-III National conference on Recent Advancements in Computational Mathematics and Engineering Sciences at Vivekananda Institute of Technology, Jaipur, during November 09-10, 2019.
15.	Three day RTU(ATU), TEQIP-III FDP on Scientific Tools in Research Methodology at Poornima Institute of Engineering & Technology, Jaipur during August 07-09, 2019.
16.	Three day RTU(ATU), TEQIP-III FDP on Recent Advancements in Mathematical Modelling and Computing at Rajasthan College of Engineering for Women, Jaipur during June 25-27, 2019.
17.	Three day RTU(ATU), TEQIP-III FDP on Scientific Research Paper Writing at Mayurakshi Institute of Engineering and Technology, Jodhpur during June 20-22, 2019.
18.	Three day RTU(ATU), TEQIP-III FDP on Scientific Writing and Computing at Poornima Group of Institute, Jaipur during May 27-29, 2019.
19.	Two day RTU(ATU), TEQIP-III FDP on Optimization Techniques & its Applications in Engineering at Mayurakshi Institute of Engineering and Technology, Jodhpur during Jan. 28-29, 2019.

Workshops/Summer School/FDP attended

S. No.	Name of Training Attended	Place/ Venue	Date
1	91 st Annual Conf. of ISCA	Punjab University, Chandigarh	Jan. 3-7, 2004
2	CMASM 2007-FIM XIV	Indian Institute of Technology, Madras, Chennai	Jan. 6-8, 2007
3	ITLM-2007	Rajasthan Technical University, Kota	June. 18-30, 2007
4	Short Term Course	Civil Engineering Dept., CTAE, Udaipur	Aug. 25-29, 2008
5	70 th Orientation Programme	UGC Academic Staff College, JNVU, Jodhpur	Jan. 4-30, 2010
6	National Seminar on Conservation of Lakes and Water Resources: Management Strategies	CTAE, Udaipur	Feb. 19-20, 2010
7	Refresher Course in Mathematics	Maths. Dept. J.N.V. University, Jodhpur	June 14- July 03, 2010
8	National Workshop on e-Recourses	CTAE, Udaipur	July 20-21, 2010

	Management for Excellence		
9	All India Seminar on Emerging and Sustainable Techniques in Civil Engineering	Civil Engineering Dept., CTAE, Udaipur	October 18-19, 2010
10	CSI-COMNET-2011	CTAE, Udaipur	Dec. 04-06, 2011
11	Refresher Course in Research Methodology and Communication Skills	J.R. Nagar Rajasthan Vidyapeeth University, Udaipur	Jan. 06-27, 2012
12	Disaster Management and Sustainable Development	NITTTR, Chandigarh	August 21-Sept. 03, 2012
13	All India Seminar	CTAE, Udaipur	March 8-9, 2013
14	Orthogonal Polynomials & Special Functions (using Mathematical Software)	QIP Centre, IIT Roorkee	July 08-12, 2013
15	Course on "Modeling and Simulation of Dynamical systems"	QIP Centre, IIT Roorkee	Dec. 30, 2013-Jan. 01, 2014
16	48 th Annual Convention of ISAE	College of Tech. & Engg., MPUAT, Udaipur	Feb. 21-23, 2014
17	National Seminar- Technical Terminology in Engineering and Science	Dept. Electronics & Comm. Engg., CTAE, Udaipur	July 14-15, 2014
18	Optimization Techniques Using Nature Inspired Algorithms for Engineering Applications	Dept. Computer Science Engg., RTU, Kota	January 19-23, 2015
19	MATLAB and its Hardware Interface through ICT	NITTTR, Chandigarh and RTU, Kota	January 11-15, 2016
20	Workshop on Human Values and Professional Ethics	RTU, Kota	February 6-8, 2016
21	MATLAB and LATEX: Tools for research	Department of Computer Engineering, RTU, Kota	February 8-12, 2016
22	Communication Skills through ICT	NITTTR, Chandigarh and RTU, Kota	February 22-26, 2016
23	STC on Advance Trends in Reliability for Engineering Applications	Department of Electrical Engineering, RTU, Kota	December 17-21, 2016
24	Tools for Engineering Research through ICT	NITTTR, Chandigarh and RTU, Kota	January 30, 2017-Feb. 03, 2017
25	Scientific Writing	Springer Nature & RTU, Kota	April 20, 2017
26	STC on Interventions for Effective Industry Institute Partnership	NITTTR, Chandigarh and RTU, Kota	April 24-28, 2017
27	Protection of Innovation & Design for Start-ups	Deptt. Training & Placement, RTU, Kota	September 20, 2018
28	Intellectual Property Rights (IPR) and Indian Patent System	RTU, Kota & DST, RAJCOST	September 28-29, 2018
29	Deep Learning & Applications	RTU, Kota	May 27-31, 2019
30	Preparation for NBA Accreditation	UD, RTU Kota	July 3-5, 2019
31	Green Manufacturing	RTU Kota & NITTTR, Chandigarh	Feb 3-7, 2020

32	Integral and Vector Calculus	Online (NPTEL, Swayam)	(Jan.-Apr. 2020) Twelve Weeks
33	Teaching and Learning for Accreditation in Technical Education	Online (NITTTR, Chandigarh)	April 27- May 01, 2020
34	NBA Accreditation of Engineering Programs	Online (NITTTR, Chandigarh)	May 11-15, 2020
35	Modeling and Simulation using MATLAB	Online (NITTTR, Chandigarh)	May 18-22, 2020
36	Outcome Based Curriculum	Online (NITTTR, Chandigarh)	May 25-29, 2020
37	Faculty Development Programme on LaTeX	Online (JNTU Kakinada & Spoken Tutorial Project, IIT Bombay.)	Two Weeks
38	Faculty Development Programme on Scilab	Online (JNTU Kakinada & Spoken Tutorial Project, IIT Bombay.)	Two Weeks
39	Applications of Mathematics in Engineering	Online (JIET, Jodhpur)	June 09, 2020
40	Fractional system with Rossenblatt process and poison Jumps-Optimal Controllability	Online (KPR Institute of Engg. And Tech., Coimbatore)	June 27, 2020
41	Complete Linear Algebra for Data Science and Machine Learning	Online (Udemy)	Four Weeks
42	Mathematics for Machine Learning: Linear Algebra	Online (COURSE Certificate)	Five Weeks
43	Introduction to Complex Analysis	Online (COURSE Certificate)	Eight Weeks
44	Introduction to Probability and Data	Online (COURSE Certificate)	Five Weeks
45	Introduction to Calculus	Online (COURSE Certificate)	Five Weeks
46	Mathematics for Machine Learning: Multivariable Calculus	Online (COURSE Certificate)	Five Weeks
47	Differential Equations for Engineers	Online (COURSE Certificate)	Five Weeks
48	Universal Human Value on the theme Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE)	October 26-30, 2020.
49	Train the Trainers on Examination Reforms	All India Council for Technical Education (AICTE)	Dec. 4-7 2021
50	Instructional School for Teachers on Linear Algebra	National Institute of Technology Arunachal Pradesh	February 20-March 28, 2021.
51	Optimization & Control Design Techniques: Innovations & Challenges	Department of Electronics Engineering, RTU, Kota	June 7-12, 2021
52	Instructional School for Teachers on Geometry of Complex Functions	IGNTU, Amarkantak	July 14-August 08, 2021
53	Recent Advances in AI, ML and Soft Computing	NIT Warangal & The Northcap University, Gurgoan	Dec. 1-10, 2021
54	ATAL FDP on "Waste Technology"	AICTE Training And Learning (ATAL) Academy and GMEC, Ajmer	Jan. 11-15, 2022

Research Publications

1. K. Jangid, S.D. Purohit, R. Agarwal and R.P. Agarwal: On the generalization of fractional kinetic equation comprising incomplete H-function, **Kragujevac J. Math.** 47(5), (2023). 701-712.
2. K. Jangid, S. Bhattar, S. Meena and S.D. Purohit: Certain classes of the incomplete I-functions and their properties, **Discontin. Nonlinearity Complex.**, (2021), Accepted.
3. N.K. Jangid, S. Joshi and S.D. Purohit: Some unified integral formulae associated with Hurwitz-Lerch zeta functions, **Palest. J. Math.**, (2022), Accepted.
4. S.D. Purohit: Certain expansion formulae involving incomplete I-functions, **TWMS J. App. & Eng. Math.**, (2021), Accepted.
5. S.D. Purohit, D. Baleanu and K. Jangid: On the solutions for generalised multiorder fractional partial differential equations arising in physics, **Math. Methods Appl. Sci.** (2021), Accepted.
6. S. Meena, S. Bhattar, K. Jangid, S.D. Purohit and K. S. Nisar: Certain generating functions involving the incomplete I-functions, **TWMS J. App. & Eng. Math.**, (2020), Accepted.
7. K. Jangid, S.D. Purohit and D.L. Suthar: A note on Lambert's law involving incomplete I-functions, **J. Sci. Arts**, 22(1) (2022), 91-96.
8. L.K. Yadav, G. Agarwal, D.L. Suthar and S.D. Purohit: Time-fractional partial differential equations: a novel technique for analytical and numerical solutions, **Arab Journal of Basic and Applied Sciences**, 29(1) (2022), 86-98.
9. N. Kumar, R.N. Jat, S. Sinha, P.K. Dadheech, P. Agrawal, S.D. Purohit and K.S. Nisar: Radiation and slip effects on MHD point flow of nanofluid towards a stretching sheet with melting heat transfer, **Heat Transfer**, 51(4) (2022), 3018-3034.
10. Nigussie Abeye, Minilik Ayalew, D.L. Suthar, S.D. Purohit and K. Jangid: Numerical solution of unsteady state fractional advection–dispersion equation, **Arab Journal of Basic and Applied Sciences**, 29(1) (2022), 77-85.
11. S. Meena, S. Bhattar, K. Jangid and S.D. Purohit: Certain expansion formulae of incomplete H -functions associated with Leibniz rule, **TWMS J. App. & Eng. Math.**, 12(2) (2022), 579-589.
12. R. Agarwal, U.P. Sharma, R.P. Agarwal, D.L. Suthar and S.D. Purohit: Bicomplex Landau and Ikehara theorems for the dirichlet series, **J. Math.** 2022 (2022), Article ID 4528209, 8 pp.
13. A. Shrivastava, J.B. Sharma and S.D. Purohit: Image encryption based on fractional wavelet transform, Arnold transform with double random phases in the HSV color domain, **Recent Advances in Computer Science and Communications**, 15(3) (2022), 5-13.
14. N.K. Jangid, S. Joshi, K. Jangid and S.D. Purohit: Fractional calculus operators connected with the product of generalized polynomials and incomplete I-functions, **Math. Eng. Sci. Aerosp. MESA**, 13(1) (2022), 143-155.
15. R. Agarwal, N. Kumar, R.K. Parmar and S.D. Purohit: Some families of the general Mathieu-type series with associated properties and functional inequalities, **Math. Methods Appl. Sci.** 45(4) (2022), 2132-2150.
16. H. Habenom, M. Aychluh, D.L. Suthar, Q.M. Al-Mdallal and S.D. Purohit: Modeling and analysis on the transmission of covid-19 pandemic in Ethiopia, **Alexandria Engineering Journal**, 61(7) 2022, 5323-5342.
17. R. Gupta, M. Gaur, Q.M. Al-Mdallal, S.D. Purohit and D.L. Suthar: Numerical study of the flow of two radiative nanofluids with Marangoni convection embedded in porous medium, **Journal of Nanomaterials**, 2022 (2022), Article ID 7880488, 7 pages.
18. P.K. Dadheech, P. Agrawal, A. Sharma, and S.D. Purohit: Marangoni convection flow of γ -Al₂O₃ nanofluids past a porous stretching surface with thermal radiation effect in the presence of an inclined magnetic field, **Heat Transfer**, 51 (1) (2022), 534–550.

19. D.L. Suthar, S.D. Purohit, R.K. Parmar and L.N. Mishra: Integrals involving product of Srivastava's polynomials and multiindex Bessel function, **Thai J. Math.**, 19(4) (2021), 1407-1415.
20. N. Subadra, M.A. Srinivas, S.D. Purohit and Sushila: Influence of slip of a Jeffrey fluid flow controlled by peristaltic transport with nanoparticles in an inclined tube, **Science & Technology Asia**, 26(4) (2021), 198-208.
21. P.K. Dadheech, P. Agrawal, S.D. Purohit and D. Kumar: Study of flow and heat transfer of CuO-Ag/C₂H₆O₂ hybrid nanofluid over a stretching surface with porous media and MHD effect, **Science & Technology Asia**, 26(4) (2021), 175-182.
22. K.A. Selvakumaran, M. Gomathi, S.D. Purohit and D. Kumar: Fekete-Szegő inequalities for new classes of analytic functions associated with fractional q-differentintegral operator, **Science & Technology Asia**, 26(4) (2021), 160-168.
23. S. Bhattar, K. Jangid, S. Meena and S.D. Purohit: Certain integral formulae involving incomplete I-functions, **Science & Technology Asia**, 26(4) (2021), 84-95.
24. P.K. Dadheech, P. Agrawal, A. Sharma, K.S. Nisar and S.D. Purohit: Transportation of Al₂O₃-SiO₂-TiO₂ modified nanofluid over an exponentially stretching surface with inclined magnetohydrodynamics, **Thermal Science**, 25 (SI-2) (2021), S279-S-285.
25. N. Subadra, M.A. Srinivas, K.S. Nisar, S.D. Purohit and W. Janshed: Heat and mass transfer effect of peristaltic motion of a Jeffery fluid in a tube, **Thermal Science**, 25 (SI-2) (2021), S185-S-192.
26. Kamlesh Jangid, S.D. Purohit, K. S. Nisar, and S. Araci: Generating functions involving the incomplete H-functions, **Analysis**, 41(4) (2021), 239–244.
27. B. B. Jaimini, Manju Sharma, D.L. Suthar and S.D. Purohit: On multi-index Mittag–Leffler function of several variables and fractional differential equations, **J. Math.** 2021 (2021), Article ID 5458037, 8 pp.
28. P. Mathur, S.R. Mishra, M. Bohra and S.D. Purohit: Entropy generation in a micropolar fluid past an inclined channel with velocity slip and heat flux conditions: Variation parameters method, **Heat Transfer**, 50 (7) (2021), 7425–7439.
29. P.K. Dadheech, P. Agrawal, A. Sharma, A. Dadheech, Q.M. Al-Mdallal and S.D. Purohit: Entropy analysis for radiative inclined MHD slip flow with heat source in porous medium for two different fluids, **Case Studies in Thermal Engineering**, 28(2021), 101491.
30. S.D. Purohit, M.M. Gour and Sunil Joshi: On some classes of analytic functions connected with Kober integral operator in fractional q-calculus, **Math. Eng. Sci. Aerosp. MESA**, 12(3) (2021), 759-769.
31. A.M. Khan, S.D. Purohit, S. Dave and D.L. Suthar: Fractional mathematical modelling of degradation of dye in textile effluents, **Math. Eng. Sci. Aerosp. MESA**, 12(3) (2021), 733-741.
32. K.R. Karthikeyan, G. Murugusundaramoorthy, S.D. Purohit and D.L. Suthar: Certain class of analytic functions with respect to symmetric points defined by q-calculus, **J. Math.** 2021 (2021), Article ID 8298848, 9 pp.
33. R.K. Parmar, R. Agarwal, N. Kumar and S.D. Purohit: Extended elliptic-type integrals with associated properties and Turán-type inequalities, **Adv. Differ Equ.** 2021 (2021): 381.
34. P. Agrawal, P.K. Dadheech, R.N. Jat, D. Baleanu and S.D. Purohit: Radiative MHD hybrid-nanofluids flow over a permeable stretching surface with heat source/sink embedded in porous medium, **Int. J. Numer. Methods Heat Fluid Flow**, 31(8) (2021), 2818-2840.
35. Priya Mathur, S.R. Mishra, Mahesh Bohra, D. L. Suthar and S.D. Purohit: Computational behavior of second law Poiseuille flow of micropolar fluids in a channel: Analytical treatment, **J. Math.** 2021 (2021), Article ID 9945319, 13 pp.
36. D.L. Suthar, S.D. Purohit, H. Habenom and J. Singh: Class of integrals and applications of fractional kinetic equation with the generalized multi-index Bessel function, **Discrete Contin.**

Dyn. Syst. Ser. S. 14(10) (2021), 3803-3819.

37. Ritu Agarwal, Kritika, Sunil Dutt Purohit and Devendra Kumar: Mathematical modelling of cytosolic calcium concentration distribution using non-local fractional operator, **Discrete Contin. Dyn. Syst. Ser. S.** 14(10) (2021), 3387-3399.
38. R. Agarwal, N. Kumar, R.K. Parmar and S.D. Purohit: Fractional calculus operators of the product of generalized modified Bessel function of the second type, **Commun. Korean Math. Soc.** 36(3) (2021), 557-573.
39. S. Meena, S. Bhattar, K. Jangid and S.D. Purohit: Certain expansion formulae of incomplete I-functions associated with the Leibniz rule, **J. Frac Calc & Nonlinear Sys.** 2(1) (2021), 42-50.
40. S. Ali, S. Mubeen, R.S. Ali1, G. Rahman, A. Morsy, K.S. Nisar, S.D. Purohit and M. Zakarya: Dynamical significance of generalized fractional integral inequalities via convexity, **AIMS Mathematics**, 6(9) (2021), 9705–9730.
41. S.D. Purohit, M.M. Gour, S. Joshi and D. L. Suthar: Certain classes of analytic functions bound with Kober operators in q-calculus, **J. Math.** 2021 (2021), Article ID 3161275, 8 pp.
42. H. Zhou, K.A. Selvakumaran, S. Sivasubramanian, S.D. Purohit and Huo Tang: Subordination problems for a new class of Bazilevic functions associated with k-symmetric points and fractional q-calculus operators, **AIMS Mathematics**, 6(8) (2021), 8642–8653.
43. S. Dave, A. M. Khan, S.D. Purohit and D. L. Suthar: Application of green synthesized metal nanoparticles in the photocatalytic degradation of dyes and its mathematical modelling using the Caputo–Fabrizio fractional derivative without the singular kernel, **J. Math.** 2021 (2021), Article ID 9948422, 8 pp.
44. S.D. Purohit, A.M. Khan, D.L. Suthar and S. Dave: The impact on raise of environmental pollution and occurrence in biological populations pertaining to incomplete H -function, **Natl. Acad. Sci. Lett.** 44(3) (2021), 263-266.
45. N.K. Jangid, S. Joshi, K. Jangid, S. Araci and S.D. Purohit: Fractional calculus operators applied to the functions involving the product of Srivastava polynomials and incomplete I-functions, **Adv. Stud. Contemp. Math., Kyungshang.** 31(2) (2021), 243-258.
46. N.K. Jangid, S. Joshi, S.D. Purohit and D.L. Suthar: The composition of Hurwitz-Lerch zeta function with pathway integral operator, **Commun. Korean Math. Soc.** 36(2) (2021), 267-276.
47. K.A. Selvakumaran, J. Choi and S.D. Purohit: Certain subclasses of analytic functions defined by fractional q-calculus operators, **Appl. Math. E-Notes** 21(2021), 72-80.
48. N. Jangid, S. Joshi, S.D. Purohit and D.L. Suthar: Fractional derivatives and expansion formulae of incomplete H and \bar{H} -functions, **Adv. Theory Nonlinear Anal. Appl.**, 5(2) (2021), 193-202.
49. Kamlesh Jangid, S.D. Purohit, K. S. Nisar, and S. Araci, Chebyshev type inequality containing a fractional integral operator with a multi-index Mittag-Leffler function as a kernel, **Analysis**, 41(1) (2021), 61-67.
50. N.K. Jangid, S. Joshi, S.D. Purohit and D.L. Suthar: Certain expansion formulae involving incomplete H and \bar{H} -functions, **J. Fract. Calc. Appl.**, 12(2) (2021), 188-196.
51. J. Singh, D. Kumar, S.D. Purohit, A.M, Mishra and M. Bohra: An efficient numerical approach for fractional multidimensional diffusion equations with exponential memory, **Numer Methods Partial Differential Eq.** 37 (2) (2021), 1631–1651.
52. R. Agarwal, Kritika and S.D. Purohit: Mathematical model pertaining to the effect of buffer over cytosolic calcium concentration distribution, **Chaos Solitons Fractals**, 143 (2021) 110610.
53. E. Bonyah, S. Ogunlade, S.D. Purohit and J. Singh: Modelling culture hereditary transmission: insight through optimal control, **Ecological Complexity**, 45 (2021), 100890.
54. P. Agrawal, P.K. Dadheech, R.N. Jat, K.S. Nisar, M. Bohra and S.D. Purohit: Magneto Marangoni flow of $\gamma - \text{Al}_2\text{O}_3$ nanofluids with thermal radiation and heat source/sink effects over a

- stretching surface embedded in porous medium, **Case Studies in Thermal Engineering**, 23(2021), 100802.
55. H. Habenom, D.L. Suthar, D. Baleanu, S.D. Purohit: A numerical simulation on the effect of vaccination and treatments for the fractional hepatitis B model, **ASME. J. Comput. Nonlinear Dynam.** 16(1) (2021): 011004.
 56. V. Vyas, A. AL-Jarrah, S.D. Purohit, S. Araci and K.S. Nisar: q-Laplace transform for product of general class of q-polynomials and q-analogue of I-function, **J. Inequal. Spec. Funct.**, 11(3) (2020), 21-28.
 57. K. Jangid, S.D. Purohit and D.L. Suthar: Transformation formulas of incomplete hypergeometric functions via fractional calculus, **Bull. Transilv. Univ. Braşov, Ser. III, Math. Inform. Phys.** 13(62) 2 (2020), 571-580.
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1. K. S. Nisar, S. D. Purohit, D. L. Suthar and J. Singh: Fractional order integration and certain integrals of generalized multiindex Bessel function, J. Singh et al. (eds.), *Mathematical Modelling, Applied Analysis and Computation*, Springer Proceedings in Mathematics & Statistics 272 (2019), 155-167. **(ICMMA 2018)**
2. N. Subadra, M. A. Srinivas, and S.D. Purohit: Mathematical approach to study heat and mass transfer effects in transport phenomena of a non-Newtonian fluid, *AIP Conference Proceedings*, 2269 (2020), 060006. **(ICMM 2019)**
3. S. Dave, S.D. Purohit, R. Agarwal, A. Jain, D. Sajnani, and S. Soni: Smart lady e-wearable security system for women working in the field, H. Sharma et al. (eds.), *Intelligent Learning for Computer Vision, Lecture Notes on Data Engineering and Communications Technologies* 61 (2021), 511-525. **(CIS 2020)**
4. D. L. Suthar, S.D. Purohit, A.M. Khan, and S. Dave: Impacts of environmental pollution on the growth and conception of biological populations involving incomplete I-function, H. Sharma et al. (eds.), *Intelligent Learning for Computer Vision, Lecture Notes on Data Engineering and Communications Technologies* 61 (2021), 567-575. **(CIS 2020)**
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6. K. Jangid, M. Mathur, S.D. Purohit and D.L. Suthar: Certain expansion formulae for incomplete I-functions and \bar{I} -functions involving Bessel function. S. Kumar et al. (eds.), Proceedings of International Conference on Communication and Computational Technologies, Algorithms for Intelligent Systems, (2021), 143-152. **(ICCCCT- 2021)**
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8. N.K. Jangid, S. Joshi and S.D. Purohit: Some double integral formulae associated with Q-function and Galue type Struve function, O. Chadli et al. (eds.), Mathematical Analysis and Applications, Springer Proceedings in Mathematics & Statistics 381 (2022), 281-291. **(MAA-2020)**
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1. Jagdev Singh, **S.D. Purohit** and Devendra Kumar, Fractional Calculus Approach in SIRS-SI Model for Malaria Disease with Mittag-Leffler Law, Kumar, D. (Ed.), Singh, J. (Ed.). (2020). Fractional Calculus in Medical and Health Science. Boca Raton: CRC Press. 82-105.
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5. R.K. Parmar, Ritu Agarwal, N. Kumar and **S.D. Purohit**, Operators of fractional integrals and derivatives of the (p, q)-extended Bessel functions and related Jacobi transforms, 2021, Verma, K. (Ed.), Shaw, A.K. (Ed.), Mullemwar, S.Y. (Ed.), Balamuralitharam, S (Ed.), Kar, R. (Ed.) (2021) Recent Advancement of Mathematics in Science and Engineering, JPS Scientific Publications, India, 80-95.
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7. R.K. Parmar, A.K. Rathie and **S.D. Purohit**, New Fractional Integrals and Derivatives Results for the Generalized Mathieu-Type and Alternating Mathieu-Type Series, Singh, H. (Ed.), Srivastava, H.M. (Ed.), Nieto, J.J. (Ed.) (2022) Handbook of Fractional Calculus for Engineering and Science, Boca Raton: CRC Press, 271-298.

Books Published

SNo	Title of Book	Type of book & Publisher	Published ISSN/ISBN No.
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1	Basic Mathematics	Text Book, Himanshu Publication, Udaipur-Delhi	978-81-7906-150-3
2	Engineering Mathematics-III (CS/IT)	Text Book, Pearson Education, India	978-81-317-6160-1
3	Engineering Mathematics-II	Text Book, Manakin Press, India	978-93-88342-19-3
4	Mathematical Modelling, Applied Analysis and Computation, ICMMAAC 2018, Jaipur, India, July 6–8	Edited Book, Springer Proceedings in Mathematics & Statistics, 272	978-981-13-9607-6
5	Engineering Mathematics-I	Text Book, Manakin Press, India	978-93-89296-40-2
6.	Proceedings of International Conference on Communication and Computational Technologies, ICCCT-2019, Jaipur, India, August 30-31, 2019	Edited Book, Springer Proceedings Algorithms for Intelligent Systems	978-981-15-5077-5
7.	Proceedings of Second International Conference on Smart Energy and Communication ICSEC-2020, Jaipur, India, March 20-21, 2020	Edited Book, Springer Proceedings Algorithms for Intelligent Systems	978-981-15-6707-0
8.	Proceedings of International Conference on Communication and Computational Technologies, ICCCT-2021, Jaipur, India, February 27–28, 2021	Edited Book, Springer Proceedings Algorithms for Intelligent Systems	978-981-16-3245-7
9.	Advanced Numerical Methods for Differential Equations: Applications in Science and Engineering	Edited Book, Boca Raton: CRC Press.	978-0-367-47311-2

Papers presented in International / National Conference

S. No.	Title of the Paper Presented/ Invited Talk	Title of Conference/ Seminar	Organized by
1	On q-Laplace transforms of certain q-hypergeometric polynomials.	70th Annual Conference of Indian Mathematical Society Dec. 26-29, 2004	Department of Mathematics & Statistics, J.N.V. University, Jodhpur
2	On fractional q-derivatives and transformations of the generalized basic hypergeometric functions.	92nd Indian Science Congress Jan. 3-7, 2005	Nirma University, Ahmedabad
3	On the Riemann-Liouville fractional q-integral operator involving a basic analogue of Fox H-function.	Conference of Special Functional and their Applications June 4-5, 2005	Department of Mathematics, Govt. College, Madiyahu, Jaunpur
4	On a q-Extension of the Leibniz rule via Weyl type of q-derivative operator.	12th Annual Conference and National Symposium on Applications of Special Functions Oct. 25-27, 2007	Department of Mathematics & Statistics, J.N.V. University, Jodhpur

5	Generalized q-Taylor's series and applications.	National Conference on Emerging Dimensions of Mathematical Sciences May 1-2, 2010	Alwar Institute of Engineering & Technology, Alwar
6	A note on certain classes of multivariable q-series transformations.	International Congress of Mathematicians (ICM-2010) August 19-27, 2010	Department of Mathematics & Statistics, University of Hyderabad
7	On generalized fractional q-integral operators involving the q-Gauss hypergeometric function.	International Conference on Mathematical Sciences in Honor of Prof. A.M. Mathai Jan. 3-5, 2011	Department of Statistics, St. Thomas College Pala, Kerala
8	A new class of multivalently analytic functions associated with fractional q-calculus operators.	International Conference on Special Functions and their Applications (ICSFA-2011) July 28-30, 2011	Department of Mathematics & Statistics, J.N.V. University, Jodhpur
9	A generalization of q-Mittag-Leffler function	International Conference on Special Functions and their Applications (ICSFA-2012), Jun 27-29, 2012	Maths Dept. SVNIT, Surat
10	Fractional q-calculus and certain subclasses of univalent analytic functions	International workshop on Special Functions and Applications Feb. 20-21, 2013	King Saud University, Riyadh, Saudi Arabia
11	Solutions of fractional differential equations of quantum mechanics	International Conference TIMES-2013, Feb. 23-24, 2013	IET, Alwar
12	Certain subclasses of univalent analytic functions involving fractional q-calculus	A tribute to S. Ramanujan & Prof. S. Chandrasekhar, April 18-22, 2013	TDPG College, Jaunpur
13	Solutions of fractional partial differential equations of quantum mechanics	International Conference on Special Functions and their Applications (ICSFA-2013), Dec. 13-15, 2013	Dept. of Mathematics, MNIT, Jaipur
14	LATEX-An Advance Technical Writing Tool	STTP on Technical Writing and its Optimization, Jan. 30-31, 2014	CTAE, Udaipur
15	Unified fractional integral formulas for the generalized Mittag-Leffler function	National Conference RAWCAI-2014, March 14-15, 2014	Dept. Electronics & Comm. Engg., CTAE, Udaipur
16	q-Analogues of Sofo's series involving reciprocates of binomial coefficients	International Congress of Mathematicians (ICM-2014), August 13-21, 2014	Coex, Seoul, South Korea
17	On certain generalized q-integral operators of analytic functions	National Conference on Computational Mathematics in Engineering and 26th Annual Conference of Rajasthan Ganita Parishad (NCCME-RGP-2015), February	Dept. Computer Science Engg. & Dept. Mathematics, RTU, Kota

		23-24, 2015	
18	On certain fractional integral inequalities	National Conference on Advances in Mathematical Sciences and Applications in Engineering Technology (AMS-AET 2015), July 25-26, 2015	Poornima University, Jaipur
19	A Gruss type integral inequality associated with pathway fractional integral operator	24th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications (24 ICFIDCAA2016), August 22-26, 2016	Anand International College of Engineering, Jaipur
20	Class of analytic functions defined by fractional q -calculus	International Conference on Recent Advances in Pure and Applied Mathematics & 28th Annual Conference of Rajasthan Ganita Parishad, February 13-14, 2017	Department of Mathematics, M.L.S. University, Udaipur
21	LATEX	Workshop on LATEX, April 25-26, 2018	RTU, Kota at JIET, Jodhpur
22	Certain subclasses of analytic functions associated with fractional q -calculus operators	International Congress of Mathematicians (ICM-2018), August 1-9, 2018	Rio Centro, Rio De Janerio, Brazil
23	A generalization of Chebyshev inequality using Pathway fractional order integrals	1st Indian-Greater Mekong Sub-Region International Conference (1st IGMSIC) 2018, on the theme "Emerging Trends in Social Sciences and Management", November 15-16, 2018	Fr. Agnel College, Pilar (FAS), at Sanskriti Bhavan, Directorate of Art & Culture, Panaji-Goa.
24	Certain k -fractional calculus operators and image formulas of k -Struve function	National Conference on RAMASEM & 30th Annual Conference of Rajasthan Ganita Parishad, February 26-27, 2019	Rajasthan Technical University, Kota & Shekhawati Institute of Engineering & Technology, Sikar
25	An extensive version of Chebyshev inequality employing Pathway fractional integrals	9th International Congress on Industrial and Applied Mathematics (ICIAM 2019), July 15-19, 2019	Universitat de València,, Valencia, Spain
26	On q -Sumudu Transforms and Applications	ICMMAAC-19, August 8-10, 2019	JECRC University, Jaipur
27	Theorems on generalized Bessel's function using MSM fractional operator	ICRDET, Sept. 14-15, 2019	RTU Kota & AICE, Jaipur

28	q-Sumudu Transforms and their Applications	ICSSFA2019, October 21-23, 2019	BTU, Bikaner
29	Certain classes of the incomplete I-functions and their properties	ICMMAAC-20, August 7-9, 2020	JECRC University, Jaipur
30	On the solutions for generalized multi-order fractional partial differential equations arising in physics	ICSC2021, January 23-24, 2021	RTU, Kota, VIT, Jaipur & SCRS, India
31	Solutions for generalized fractional partial differential equations in physics	ICIV2021, March 05-07, 2021	SCRS, India at Goa
32	Generalization of a Fractional Kinetic Equation with Incomplete H-functions	CRESM 2022, March 10-12, 2021	SCRS, India and Padre Conceicao College of Engg., Verna Goa