DEPARTMENT OF MATHEMATICS
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL

Title	Dr.	First Name	Arvind	Last Name	Kumar	Photograph
Designation		Assistant Professor				
Address		78 E, Top floor, Pocket 3, Mayur Vihar Phase 1, Delhi 110091				
Phone No Office		NA				
Residence		NA				
Mobile		8826109793				
Email		arvindmathsdu@gmail.com, arvindkumar.maths@dsc.du.ac.in				
Web-Page						

Educational Qualifications

Degree	Institution	Year
Ph.D.	University of Delhi, Delhi	2018
M.Tech.	IIT(ISM) Dhanbad	2011
M.Sc.(Mathematics)	CCSU, Meerut	2005
B.Sc.	CCSU, Meerut	2003

Career Profile

- Working as an Assistant Professor(Adhoc) in Dyal Singh College, University of Delhi, India from 22nd July, 2015 to till now.
- Worked as a Guest Lecturer in Dyal Singh College, University of Delhi from August, 2014 to April, 2015.
- Worked as an Assistant Professor(Adhoc) in Rajdhani College, University of Delhi from 2nd February, 2015 to 30th April, 2015.
- Worked as an Assistant Professor(Adhoc) in Maharaja Agrasen College, University of Delhi from 20th August, 2014 to 19th December, 2014.
- Worked as an Assistant Professor(Adhoc) in Satyawati College(Eve.),University of Delhi from 30th July, 2013 to 22nd May, 2014.

Administrative Assignments (From 1st July 2017 onwards)

Member of the Time table Committee

Areas of Interest / Specialization

Research Areas

- Operations Research and Optimizations
- Soft Computing (Fuzzy theory, Genetic Algorithm)
- Inventory Management

Subjects Taught

- Operations Research and Optimizations
- Linear Programming
- Numerical Methods
- Algebra
- Linear Algebra
- Calculus
- Real Analysis
- Differential Equation
- Complex Analysis

Research Guidance

Publications Profile (From 1st July 2017 onwards)

1. **Arvind Kumar** "A class of higher-order symmetry duality in vector optimization problem under strongly higher-order (Q,T,τ,θ,e)-pseudoconvexity assumptions", **NONLINEAR STUDIES, 2022 Vol. 29 No. 3, pp 01-08.**
2. **Arvind Kumar** "Second-order non-differentiable multiobjective symmetric duality results involving cone functions under generalized conditions", **NONLINEAR STUDIES, 2022 Vol. 29 No. 3, pp 01-16.**
3. **Arvind Kumar** "Non-differentiable higher-order fractional programming problem and their duality results under cone-invex functions", **AIP Conf. Proc. 2364, 020031(2021), (Scopus Indexed).**
4. **Arvind Kumar** "Special class of G-wolfe type fractional duality theorems under G-psedoinvexity assumtions", **Journal of Physics: Conference Series, (1724)2021 012027, (Scopus Indexed).**
5. **Arvind Kumar** "Pattern formation of prey-predator system with schooling behavior via amplitude equation", **Advances in Mathematics : Scientific Journal, 2020 Vol. 9(11), 9697-9712, (Scopus).**
6. **Arvind Kumar** "New class of g-wolfe-type symmetric duality model and duality relations under gf-bonvexityover arbitrary cones," **Journal of Inequalities and Applications, 2020, Vol. 2020(2020), 630-637, (SCIE).**
7. **Arvind Kumar** and Pankaj Kumar Garg, **"**Duality results for a second-order multiobjective fractional programming problem with generalized convexity," **International Journal of Mathematics in Operational Research, 2017, Vol. 11, No. 4, 435-449, (Scopus**, **Mathematical Reviews/MathSciNet Indexed).**

Conference Organization/ Presentations (From 1st July 2017 onwards)

1. Attended and **presented** a paper at **4th International Conference on Mathematical Techniques in Engineering Applications(ICMTEA2020),** held at Graphic Era Deemed to be University, *Dehradun, Uttarakhand, India during 04-05 December, 2020.*
2. Participated as a Subject Resource Person in the ***Virtual Workshop on Collating Mathematics Resources for Teachers in Higher Education*** organized by National Resource Centre for Education of this Institute *during October 06-07, 2020 at NIEPA, New Delhi.*
3. Contributed as a **Resource Person** in the workshop for the **Development of Mathematics**

Practical Manual for B.Sc.B.Ed. held at *Regional Institute of Education(NCERT), Bhopal from 26 February-01 March, 2020.*

4. Contributed as a **Resource Person** in the workshop for the **Development of Mathematics Practical Manual for B.Sc.B.Ed.** held at *Regional Institute of Education(NCERT), Bhopal from 22-26 January, 2020.*
5. Contributed as a **Resource Person** in the workshop for the **Development of Mathematics Practical Manual for B.Sc.B.Ed.** held at *Regional Institute of Education(NCERT), Bhopal from 16-20 December, 2019.*
6. Attended, chaired a session and **presented** a paper at **9th International Conference on Quality, Reliability, Infocom Technology & Business Operations (ICQRIT-2018)**, held at University of Delhi, *Delhi, India during 27-29 December, 2018.*
7. Attended and **presented** a paper at **1st International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling,** held at University of Delhi, *Delhi, India during 21-23 December, 2018.*
8. Attended and **presented** a paper at **The 33rd Annual Conference of the Ramanujan Mathematical Society,** held at University of Delhi, *Delhi, India during 1-3 June, 2018.*
9. Attended and **presented** a paper at **2nd International Conference of Vijnana Parishad of India on Recent Trends of Computing in Mathematics, Statistics and Information Technologies,** held at Department of Mathematical Sciences and Computer Applications, Bundelkhand University, *Jhansi(U.P.), India during 09-11 March, 2018.*
10. Attended and **presented** a paper at **Conference on Analysis and its Applications,** held at Dyal Singh College, University of Delhi, *Delhi, India during 9-11 December, 2017.*

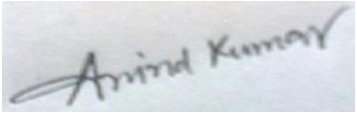
Research Projects (Major Grants/Research Collaboration) (From 1st July 2017 onwards)

Awards and Distinctions (From 1st July 2017 onwards)

Association With Professional Bodies

Other Activities like MOOCs/ Patents etc. (From 1st July 2017 onwards)

- **PATENT (2020)** Title : MMP-ML-TECHNIQUE: MANAGING A MANUFACTURING PROCESS OPERATION USING MACHINE LEARNING TECHNIQUE, International classification : G05B0019418000, G06Q0010060000, G06F0016242000, G06N0020000000, G06Q0010080000
- Practical Manual by NCERT(2020)



Signature of Faculty Member