

# Aryabhatta College

## Department of Mathematics

### (Annual Report for the Academic session 2016 to 2017)

1) Name of Teacher in Charge : Dr. Yogender Singh

2) Brief details of Faculty members :

Name	Qualification	Designation	Specialization	Teaching Experience (Years)	Permanent/ Temporary/ Ad-hoc /Guest
Dr. Narender Kumar	Ph.D.	Associate Professor	Mathematical Programming and Optimization	22 Year 9 month	Permanent
Dr. Yogender Singh	Ph.D.	Assistant Professor	Optimal Control Theory	5	Permanent
Dr. Naveen Kumar Jain	Ph.D.	Assistant Professor		5	Permanent
Mrs. Aakanksha Singh	M.Sc.	Assistant Professor	Pure Mathematics	5	Permanent
Mr. Gufran malik	M.Tech.	Assistant Professor	Pure Mathematics	5	Permanent
Mr. Chandrashekhar Nishad	M.Sc.	Assistant Professor	Fluid Dynamics	2	Permanent

3) Student Strength

First Year	Second Year	Third Year
45	0	0

4) Details of publication work by the faculty members

Serial No.	Author	Title	Journal	Volume, Year, Page No.	Publisher/ISSN No. / Int. Database	Refereed
1.	Narender Kumar	A Note On Nonsmooth Partial Vector Invexity in n-Set Optimization	<i>International Journal of Mathematica I Science</i>	15(3-4) July 2016	0972-754X	Yes
1.	Narender Kumar	Multi-Switching Synchronization of Non-identical Chaotic Systems	<i>International Journal of Applied Mathematics and Physics</i>	9(1) June 2017 69-80	0974-8059	Yes
2.	Naveen Kumar Jain	Starlike functions associated with a cardioids	Afrika Mathematica	27(5) 2016 923-939	2190-7668	Yes
3.	Naveen Kumar Jain	Radius problems for product and convolution of univalent functions	Honam Journal of Mathematics	38(4) 2016 701-724	2288-6176	Yes
4.	Naveen Kumar Jain	Convex combination of analytic functions with identity functions	Open Mathematics	15(1) 2017 331-339	2391-5455	Yes

5) Participation of faculty members in seminars/workshops ,etc

- **Dr. Naveen Kumar Jain** Participated in an Orientation Course organized by the CPDHE, University of Delhi, Delhi, October 25 to November 23, 2016.
- **Mr. Gufran Malik** participated in “Young Scientist’s Conclave” organized by CSIR-NPL New Delhi from 07 Dec 2016 to 11 Dec 2016.
- **Dr. Yogender Singh** participated in “26<sup>th</sup> Orientation Programme (4 weeks)” organized by UGC – Human Resource Development Centre, B.P.S. Mahila Vishavidyalaya, Khanpur Kalan (Sonapat), Nov 15 – Dec 12, 2016.
- **Dr. Yogender Singh** participated in a 3 weeks Refresher Course in “Mathematical Science” organized by UGC-HRDC Centre for Professional Development in Higher Education, University of Delhi, June 06 - 27, 2017.

- **Dr. Chandrashekhar Nishad** participated One day CAPACITY BUILDING WORKSHOP ON e-CONTENT CREATION Organized by Institute of Lifelong Learning, University of Delhi on 28/10/2016
- **Dr. Chandrashekhar Nishad** Participated in two days FACULTY DEVELOPMENT PROGRAMME ON COMPUTER ALGEBRA SYSTEM AND LATEX organized by Department of Mathematics SLC on February 16-17, 2017

6) Achievement of Students including their participation in various societies: N.A.

7) Co-curricular Programmes conducted by the Department: N.A.

8) Library Budget sanctioned for the Department: Rs. 120000/-

9) (Strength ,Weakness , Opportunities, Challenges) SWOC Analysis of the Department

Strengths: All faculty members are energetic, dedicated and have good knowledge of the subject. Library is equipped with good quality mathematics books.

Weaknesses: This is the first batch of B.Sc. (Hons.) Mathematics. The department did not organize any seminar during this academic session.

Opportunities: To build a good foundation of the department, as this is the beginning of B.Sc. (Hons.) Mathematics course at our college.

Challenges: To build a good foundation of the department is not only an opportunity but also a challenge.

10) Future Plans of the Department: To make B.Sc. (Hons.) Mathematics course of our college among the best ones in the University of Delhi.