

Aryabhatta College

Department of Mathematics

(Annual Report for the Academic session 2015 to 2016)

1) Name of Teacher in Charge : NARENDER KUMAR

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	21 Year 9 month	Permanent
Dr. Yogender Singh	Ph.D.	Assistant Professor	Optimal Control Theory	4	Ad-hoc (Till 29/02/2016) Permanent (From 01/03/2016)
Dr. Naveen Kumar Jain	Ph.D.	Assistant Professor	Complex Analysis and Functional Analysis	4	Ad-hoc (Till 29/02/2016) Permanent (From 01/03/2016)
Mr. Gufran malik	M.Tech.	Assistant Professor	Pure Mathematics	4	Ad-hoc (Till 29/02/2016) Permanent (From 01/03/2016)
Mr. Monu Kumar	M.Sc.	Assistant Professor	Applied Mathematics	3	Ad-hoc (Till 29/02/2016)
Ms. Anuradha Sabharwal	M.Sc.	Assistant Professor	Pure Mathematics	---	Guest (29/02/2016)
Mr. Sanjeet Kumar	M.Sc.	Assistant Professor	Pure Mathematics	----	Guest (29/02/2016)
Mrs. Aakanksha Singh	M.Sc.	Assistant Professor	Pure Mathematics	3.8yrs (Ad-Hoc in previous colleges)	Permanent (From 01/03/2016)

				2months (Permanent)	
Mr. Chandrashekhar Nishad	M.Sc.	Assistant Professor	Fluid Dynamics	1 (Ad-Hoc in previous colleges) 2months (Permanent)	Permanent (From 02/03/2016)

3) Student Strength

First Year	Second Year	Third Year
0	0	180+

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	Attractors of Duffing Map: Application of DLI and 0-1 Test	<i>International Journal of Engineering and Innovative Technology</i>	4(10) 2015 165-169	2277-3754	Yes
2.	Chandrashekhar Nishad	Effect of Variable Viscosity and Permeability on Natural Convective Heat Transfer Across a Vertical Cone	<i>Journal of Nanofluids</i>	4(1) 2015 91-99	<i>American Scientific Publishers</i> 2169-432X (Print)2169	Yes

		Embedded in a Porous Medium Saturated with Nanofluid			-4338 (Online)	
3.	Chandrashekhar Nishad	Buoyancy Induced Flow Past a Non-Isothermal Axisymmetric Body Immersed in a Porous Medium of Varying Permeability Saturated by Non-Newtonian Nanofluids.	<i>VIJNANA BHARATHI-The frontier journal in SCIENCE</i>	1(2) 2016 141-158	Bangalore University Journal of Science ISSN : 0971-6882 ISSN-L : 0377-487 CODEN : VBHAD6	Yes

- 5) Participation of faculty members in seminars/workshops ,etc
 - Mr. Gufran Malik participated in a one day workshop on Computational Optimization organized by Sri Venkateswara College, University of Delhi on 05 Feb, 2016.
 - Dr. Yogender Singh participated in “**Workshop** on Computation Optimization”, organized by Department of Mathematics, Sri Venkateswara College, University of Delhi, Feb 05, 2016
- 6) Achievement of Students including their participation in various societies
- 7) Co-curricular Programmes conducted by the Department
- 8) Library Budget sanctioned for the Department; Rs 80000/-
- 9) (Strength ,Weakness , Opportunities, Challenges) SWOC Analysis of the Department

Strengths:

 - Young, dedicated and vibrant faculty, who apart from being excellent teachers, also maintain a strong bond and interaction with students.
 - Excellent academic environment for students and teachers in the form Library, and exclusive Computer Lab for the Department.
 - The needs of Weak students are addressed by paying special attention to them in the tutorials and sometimes in the zero period.

Weaknesses:

 - Large classes- We had 180+ students on Roll divided into three sections.
 - Research projects of faculty require more focus.
 - Industry/Academic interaction is required.
 - Third year is the Lone batch in the academic session, they neither have any seniors nor juniors.

Opportunities:

- Utilization of available ICT tools for research purposes.
- To build brand image of the department.
- To appoint permanent faculty in the Department.
- To encourage students to explore beyond curriculum.

Challenges:

- Main challenge is to bring back B.Sc. (Hons.) Mathematics course in the college on permanent basis.
- Appointment of Permanent faculty in the Department.

Future Plans of the Department

- To Bring back B.Sc. (Hons.) Mathematics under CBCS on permanent basis.