

CURRICULUM VITAE



Name: AIJAZ AHMAD NAJAR

Subject: Mathematics

Area of Specialization: Bio-Mathematics, PDE, Bi-Complex Analysis

Organisation: Department of Higher Education, J & K.

Email: aijaznajar25@gmail.com

Phone: 9596392751, 7006371287

Summary:

Ph.D. Degree in *Mathematics*

Currently working at *Govt. Degree College Anantnag.*

Achievements:

S. No.	Name of Exam	Year of Passing	Rank	Remark/Conducting body
1.	CSIR- NET(JRF)	June – 2012	79	JRF (CSIR)
2.	JKSET	Dec – 2013	02	University of Kashmir
3.	GATE	2011	AIR-386	IIT Madras

Workshops/ Conferences etc. attended:

- ❖ Participated and presented paper in Two days ICSSR seminar conducted by Department of Electronics, Govt. Degree College Anantnag on 25th and 26th November 2025
- ❖ Successfully completed two weeks Multidisciplinary Refresher course conducted by MMTC University of Jammu w.e.f. 06-06-2025 to 19-06-2025.
- ❖ Attended Two weeks Refresher Course in Vedic Mathematics from 09-07-2023 to 22-07-2023 organised by Teaching Learning Centre Ramanujan College, University of Delhi.
- ❖ Attended Two weeks Refresher Course in Applicable Mathematics from 15-12-2021 to 29-12-2021 organised by Ramanujan College.
- ❖ Successfully completed *Three Months Certificate Course (NPTEL-AICTE FDP) between September 2020 to December 2020 on Linear Algebra* conducted by IIT Kanpur.
- ❖ Attended TEQIP-III sponsored one week short term course on “Mathematics Without Boundaries” w.e.f. 23-11-2020 to 27-11-2020 organised by Department of Mathematics, NIT Srinagar.

- ❖ Attended Webinar on Mathematical Modelling of Communicable and Non-Communicable Diseases, from 08-08-2020 to 11-08-2020 organised by Mahatma Gandhi Central university, Motihari, Bihar.
- ❖ Attended Five Day National Webinar O “ Fluid Dynamics from Mathematicians Point Of View” from August 9-13, 2020 Organised by Department of Mathematics, School of Sciences, GITAM University Hyderabad.
- ❖ Participated in One week Online International Faculty Development Programon “Recent Advances in Mathematics and Statistics”jointly organized by Department of Mathematics, Institute of Science and centre for Learning and sustainability GITAM, Vishakhapatnam, Andhra Pradesh from 3rd August 2020 to 8th August 2020.
- ❖ Attended four weeks orientation programme for newly appointed Assistant professors in higher education department conducted jointly by University of Kashmir and Govt. college of Education, M. A. road Srinagar from 07-11-2016 to 06-12-2016.
- ❖ Participated in the one day workshop on the celebration of Ramanujan day held at Jammu and Kashmir Institute of mathematics, Srinagar on 22-12-2016.
- ❖ Presented a paper in the 11th JK Science Congress entitled, ‘Numerical Study of Heat Exchange in Human Body Through Clothes and Thermal Stability of Biological Tissues’ held at University of Kashmir, Srinagar from October, 12-14, 2015.
- ❖ Attended three weeks AIS workshop on Naïve Set Theory and its Applications held in the department of Mathematics , University of Kashmir from April 13- May 02, 2015.
- ❖ Presented poster entitled “*Mathematical Model for the transport of oxygen in the living tissue through capillary bed*” in 3-Day lecture program on mathematical modeling of biological tissues held at University of Kashmir from April 02-04, 2015.
- ❖ Participated in three day workshop on, ‘Introduction to Graph and Geometric Algorithms’ held at university of Kashmir during May, 18-20, 2015.
- ❖ Presented a research paper entitled, ‘*Maclaurin’s Series approach for the solution of oxygen transport to the biological tissues*’ in the National Meet of Research Scholars held from Dec., 17-22 2014 at University of Jammu.
- ❖ Attended the NPDE-TCA workshop of Post Graduate Level program on Differential Equations at IIT Guwahati from June 02, 2014 to June 21, 2014.
- ❖ Attended the workshop of NPDE-TCA on Non Linear Functional Analysis and its applications at University of Kashmir from 21-29 October 2013.
- ❖ Participated in International Conference on ‘Legacy of Ramanujan’ at Delhi University from 17-22 December 2012.
- ❖ Presented paper entitled , ‘*Certain Results on the Growth of Bicomplex Entire Functions*’, in IMS (Indian Mathematical Society) conference in 2011 at Nanded, Maharashtra.

Research Publications:

1. Aijaz A Najar, Rouf Gulzar, and Inderdeep Singh, *Mathematical Study of Heat Transport in Human dermal Regions Under Normal and Tumour Tissues*, *Journal of scientific Research*, Vol. 64, Issue-02, BHU, 2020.
2. Aijaz A. Najar and M.A. Khanday, *Numerical study of heat exchange in human body through clothes and thermal stability of biological tissues*, *Applied Mathematics and Information Sciences* **10**, No. 6, 2217-2225 (2016).
3. M. A. Khanday , Fida Hussain, Aijaz Najar and Khalid Nazir, *Amathematical model for the estimation of thermal stress and development of cold injurieson the exposed organs of*

the human body, *Journal of Mechanics in Medicine and Biology*, World Scientific Publishing Company, Singapore, **16** (5), DOI: 10.1142/S0219519416500627, 1650062, 2016.

4. **M. A. Khanday and A. A. Najar**, *Mathematical model for the transport of oxygen in the living tissue through capillary bed*, *Journal of Mechanics in Medicine and Biology*, **15** (4), 1550055-1 to 12, 2015.
5. **M. A. Khanday and A. A. Najar**, *Maclaurin's series approach for the analytical solution of oxygen transport to the biological tissues through capillary bed*, *Journal of Medical Imaging and Health Informatics*, **5**, 1-5, 2015
6. **M. A. Khanday, Aijaz Mir, et al.**, *Finite element approach to study the behavior of fluid distribution in the dermal regions of human body due to thermal stress*, *Journal of the Egyptian Mathematical society*, **23**, 568-573 (2015).
7. **M. A. Khanday and A. A. Najar**, *Variational finite element approach to estimate the behavior of oxygen diffusion in the biological tissue via plasma and capillary layers*, *International Journal of Modern Mathematical Sciences*, **12** (1), 1-9.

Research Papers Submitted:

1. Cervical Artery Dissection-Comparative role of computed tomographic Angiography and Magnetic resonance imaging-Demystifying the Truth, Clinical Neurology and Neurosurgery

Invited Lectures/Talks:

- Delivered an invited talk in the Mathematics Outreach Programme Held at Model Hr. Sec. School Brakpora Anantnag Organised by Department of Mathematics University of Kashmir South Campus Anantnag on 07-12-2022.
- Delivered invited Talk at District Institute of Education and Training Kulgam on the popularization of Mathematics among the secondary and Senior secondary students organized by Department of Mathematics, University of Kashmir in December 2023.

Awards/Honours:

Received Letter of Appreciation from Controller of Examinations, University of Kashmir in 2019 for valuable academic inputs for conduct of UG semester examination.

Memberships/Roles:

- ❖ Life time member of Jammu and Kashmir Institute of Mathematical Sciences
- ❖ Member of Board of Undergraduate studies in Mathematics, University of Kashmir (2025-2028)
- ❖ Approved Supervisor/Co-supervisor for guiding Research students in Mathematics
- ❖ Approved as Supervisor/Guide for the undergraduate students enrolled in Honor's in Mathematics with research from the year 2025 by Director colleges, J and K Higher Education.

Projects:

Submitted project titled "Mathematical estimation of effect of Kangri as a conventional heating source on human skin during harsh winter period of J and K" to ANRF

<https://www.anrfonline.in/ANRF> (ANRF/ARG/2025/007444/MS) which is currently under review

Academic Qualification:

S. No.	Name of Exam	Year of Passing	Percentage	Division	Board/University
1.	Matric (10 th)	2001	66	First	JKBOSE
2.	HS Part-II(12 th)	2003	79	Distinction	JKBOSE
3.	B. Sc (Graduation)	2006	66	First	Kashmir University
4.	M. Sc (Math)	2009	72	First	Kashmir University
5.	B. Ed	2013	71	First	Kashmir University
6.	M. Phil (Math)	2012	80	Distinction (Grade – A ⁺)	Dr. B.R. Ambedkar University, Agra
7.	Ph. D	Grade-outstanding			Kashmir University

Research Experience and Training Courses:

Research Stage	Title of work/Thesis	University/College	Year
M. Phil	Certain Results on the Growth of Bi-complex entire Functions	Dr. B.R. Ambedkar University (Agra University), Agra	Aug. 2010- Jan 2012
Ph.D.	Variational Finite Element Approach to Study Heat and Oxygen Transfer in Human Body	University Of Kashmir	Dec. 2012 – March 2016
Training Course	Four Weeks UGC sponsored Orientation programme for Assistant Professors	University of Kashmir and Govt. College of Education	2016 From 07-11-2016 to 06-12-2016
Two weeks Refresher Course	UGC-STRIDE 2 nd Refresher Course on Research Methodology: Research Ethics, Methods, Skills, Writing, and Communication	Mizoram University, Aizawl-796004	2020 From 19-08-2020 to 01-09-2020

Teaching Experience:

Course taught	Name of the University/College	Year and Duration
U.G Engineering	Islamic University of Science and Technology	01-03-2016 to 21-08- 2016 (6 months)
P.G. Mathematics	University of Kashmir, South Campus.	25-04-2009 to 11-11-2009 (7 months) And 27-03-2012 to 06-12-2012 (10 months)
P.G. Mathematics	Govt. Degree College (Boys) Baramulla	From 22-08-2016 to 05-05-2020
U. G. Mathematics	Govt. Degree College Kulgam	From 07-05-2020 to 04-10-2023
U. G. Mathematics	Govt. Degree College Anantnag	From 005-10-2023 till date

Computer proficiency:

- ❖ Basic fundamentals especially related to Maths, MATLAB and Latex, FlexPDE etc.

Personal detail:

Father's name: GH. QADIR NAJAR
Mother's name: MUNEERA BANOO
DOB: 25-11-1985
Nationality: Indian

Declaration:

I hereby declare that the information given above is true to the best of my knowledge and understanding.

Date: 25/11/2025

Aijaz Ahmad Najar