Dr. Muhammad Hanif

Residence: Department of Mathematics University of Narowal.
Cell No: +923008141122
Email:muhammad.hanif@uon.edu.pk hanifmayo84@gmail.com

CURRICULUM VITAE

ABOUT ME:

I am a Ph.D. Doctor in Pure Mathematics. I am interested in studying curves and Surfaces in Euclidean space as well as in Minkowski spaces with some applications to Mathematical and Engineering problems.

Career Objects:

Actively looking for a suitable position in a reputed and ambitious organization where I can contribute my excellent technical, managerial and interpersonal skills towards the growth of the organization and where I can add to the values of organization by showing team work, innovation and collaboration through effective research.

s

Professional Work Experience:

Organization: University of Narowal, Pakistan.
Designation: Assistant Professor
Tenure: 25 September, 2020 To Present.

Skills and Expertise:

Pure Mathematics, Functional Analysis, Mathematical Methods of Physics, Geometry, Differential Geometry, Applied Mathematics, Numerical Analysis, Discrete structure, Calculus.

Personal Summary:

- Date of Birth : 10-07-1984
- Citizenship : Pakistan

Academic Qualification:

[2014 - 2019] Dalian University of Technology, Dalian, China.

Ph.D. in Pure Mathematics.

Specialized in: Differential Geometry

Research Interests: Differential Geometry, Geometry and Topology, General Relativity, Minkowski Space, Riemannian Geometry.
Project Project: Executed research Project valued at PKR 1,000,000

Advisor: Zhong Hua Hou, Prof. at Dalian University of Technology, Dalian, China.

[2011 - 2013] Institute of Southern Punjab, Multan, Pakistan.

MSc. Mathematics

[2011 - 2012] Allama Iqbal Open University, Pakistan.

B.Ed. Mathematics and Physics

[2004 - 2006] Bahauddin Zakarya University, Multan, Pakistan.

B.Sc. Mathematics

Subjects:

1. Mathematics (A)
2. Mathematics (B)
3. Physics

[2001 - 2003] Government Science College, Multan, Pakistan.

F.Sc. (Pre-Engineering).

[1999 - 2001] Government High School Gahi Mummer Kehror pacca, Multan, Pakistan.

Matriculation (Science). Science Group

Fellowship & Awards:

- **2014** Chinese Government Scholarship.
- **2013** Excellent student award of Institute of Southern Punjab, Multan , Pakistan.

Publications:

1: **Muhammad Hanif**, Zhong Hua Hou, Nisar K. S. *On Special Kinds of Involute and Evolute Curves in 4-Dimensional Minkowski Space.* **Symmetry**, 10, 2018.

2: **Muhammad Hanif**, Zhong Hua Hou, Emilija Nešović. *On involutes of order kkk of a null Cartan curve in Minkowski spaces.* **Filomat**, 33(8), 2295–2305, 2019.

3: **Muhammad Hanif**, Zhong Hua Hou. *Generalized involute and evolute curve-couple in Euclidean space.* **International Journal of Open Problems in Computer Mathematics**, 15, 2018.

4: **Muhammad Hanif**, Zhong Hua Hou. *A new approach to find a generalized evolute and involute curve in 4-dimensional Minkowski space-time.* **Palestine Journal of Mathematics**, 10, 2018.

5: **Muhammad Hanif**, Mehmet Önder. *Generalized quaternionic involute-evolute curves in the Euclidean 4-space.* **Mathematical Methods in the Applied Sciences**, 2020, 1–12. DOI:10.1002/mma.6231.

6:Zhong Hua Hou, Wei Shi, **Muhammad Hanif**. *Submanifolds in SE(3) and their applications in envelope theory.* **Mechanism and Machine Theory**, 142, 2019.

7: Kang-Li Wang, Hao Wang, **Muhammad Hanif**. *A new perspective for two different types of fractal Zakharov–Kuznetsov models.* **Fractals**.

8: M. Ilyas, Khalid H. Shah, **Muhammad Hanif**. *Cylindrical and spherical two-soliton propagation for high frequency waves with (r,q) distributed electrons.*

9: **Muhammad Hanif**, Fatemah Mofarreh, A. Ali. *A study on the behavior of osculating and rectifying curves on smooth immersed surfaces in* E^3

10: **Muhammad Hanif**, Fatemah Mofarreh, A. Ali. *Null Cartan curve's generalized involute–evolute curve couple in* E^4.

11: A. Elsharkawy, A. Ali, **Muhammad Hanif**, C. Cesarano. *An advanced approach to Bertrand curves in 4-dimensional Minkowski space.*

12: **Muhammad Hanif**, Fatemah Mofarreh, A. Ali. *Combinatorial correspondences between colored partitions by Dedekind's level-8 partition identities. AIMS*

Supervision:

Supervised 10 MPhil students.

Technical Proficiency:

Software: Microsoft Office (Word, Excel, Outlook, PowerPoint, Project), LaTex.

Language: Mathematica, Matlab.

LANGUAGES:

- English (Speaking, Writing, Listening, Reading).
- Urdu. (Native Language).
- Chinese (Basic).

University Projects (Completed):

Description:

I have successfully completed a project worth 10,00000 Titled “Geometry of pair of involute and evolute curves in space form” at department of mathematics University of Narowal.
Funding agency NAHE /SRGP/HEC/2020/79

References:

1. Zhong Hua Hou (Professor at School of Mathematical Science Dalian University of Technology, Dalian, China)
   E-mail address: zhhou@dlut.edu.cn, zhonghua@dlut.edu.cn
2. Dr. H. M. Noor-ul-Huda Khan Asghar (Chairperson Department of Physics Faculty of Arts and Basic Sciences BUITEMS, Pakistan)
   E-mail address: noorullhuda.khan@buitms.edu.pk, noorulhudakhan@gmail.com
3. Dr. K.S. Nisar (Associate Professor Department of Mathematics Prince Sattam bin Abdulaziz University Saudi Arabia, +966563456976) E-mail: n.sooppy@psau.edu.sa, ksnisar1@gmail.com
4. Dr. Syed Asif Ali Shah (Director Postgraduate Studies, Dawood University of Engineering and Technology, Karachi, Pakistan)
   E-mail address : asif.shah@duet.edu.pk
5. Dr. Yasir Niaz (Head of Department Assistant Professor Department of Agricultural Engineering Khwaja Fareed University of Engineering and Information Technology)
   E-mail address: yasir.niaz@kfueit.edu.pk