



# B Nitin

PhD Research Scholar

Indian Institute of Technology Kharagpur

## Education

since 2016	Ph.D. Research Scholar <i>Storage and Transport of Cryogenics</i>	Indian Institute of Technology, Kharagpur
2014-2016	M.Tech Thermal Power Engineering	Mahatma Gandhi University
2010-2014	B.Tech Mechanical Engineering	Mahatma Gandhi University

## Publications

2020	Design of dewar supports through topology optimization
2020	A Multifunctional Smart Textile Derived from Merino Wool/Nylon Polymer Nanocomposites as Next Generation Microwave Absorber and Soft Touch Sensor
2019	Theoretical comparison of thermo-mechanical behavior of a tension rod and a coil as dewar support
2019	Simulation of the stress regime during grain filling in bamboo reinforced concrete silo
2018	Structural and thermal analysis of dewar supports for low boil-off long duration storage of cryogenic liquids
2018	Optimization of the performance of injection cooling system using genetic algorithm

## Conferences Attended

2019	Cryogenic Engineering Conference, Connecticut Convention Center, USA
2017	26th National Symposium on Cryogenics and Superconductivity, Kolkata

## Subjects of Interest

Heat transfer	Thermodynamics	Fluid Mechanics
Soft and Evolutionary Computing	Artificial Intelligence	Structural Mechanics

## Teaching Assistance

2020	LNG Upstream Technology	IIT, Kharagpur
2017,2018	Cryogenic Mass Transfer	IIT, Kharagpur
2018	Cryogenic Gas Separation and Purification	IIT, Kharagpur
2019	Mass, Momentum and Energy Balances in Engineering Analysis	NPTEL
2018	LNG Upstream Technology	NPTEL



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<https://github.com/nitinbaby>



<https://tinyurl.com/rgnitin>



<https://tinyurl.com/linnitin>



<https://tinyurl.com/tbnitin>

## About me

PhD research scholar working at Indian Institute of Technology Kharagpur. Mechanical Engineering is the core area of academic research. Avid inclination towards artificial intelligence and the implementation of soft computing in customer oriented products and services (A few published research papers in these areas). Web development, App development and HAM radio operation are some from the long list of hobbies.

## Course Works

- Advanced Fluid Mechanics
- Advanced Heat and Mass Transfer
- Advanced Thermodynamics
- Advanced Refrigeration
- Two Phase Flow
- Fluid Structure Interaction
- Computational Fluid Dynamics
- Soft Computing
- Cryogenic Heat Transfer



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## Positions Held

✳️ Research Scholars Representative to the Institute RS Council

## Professional Membership

👤 Community Member American Chemical Society

## Trainings and workshops attended

- ✋ Industrial Project at VSSC, Indian Space Research Organization
- ✋ Industrial training at Travancore Titanium Ltd during B.Tech
- ✋ Industrial training at Hindustan Lifecare Ltd during B.Tech
- ✋ Attended seminar on Oil and Gas Safety at Mar Athanasius College of Engineering
- ✋ Attended seminar on Industrial Safety at Mar Athanasius College of Engineering
- ✋ Attended workshop on Ansys® at Mar Athanasius College of Engineering
- ✋ Attended workshop on LaTeX at Indian Institute of Technology Kharagpur

## Software Knowledge

- |                   |                      |                    |
|-------------------|----------------------|--------------------|
| 🔧 Solidworks®     | 🔧 Ansys®             | 🔧 OriginPro®       |
| 🔧 Matlab®         | 🔧 Scilab®            | 🔧 Blender®         |
| 🔧 MS Office®      | 🔧 MS Visio®          | 🔧 MathType®        |
| 🔧 LaTeX®          | 🔧 PtokaX®            | 🔧 GNU Plot®        |
| 🔧 Adobe Audition® | 🔧 Adobe Premier Pro® | 🔧 Adobe Photoshop® |
| 🔧 GIMP®           | 🔧 Inno Setup®        | 🔧 Inkscape®        |

## Programming languages known

- |       |           |          |
|-------|-----------|----------|
| 🔧 C++ | 🔧 Fortran | 🔧 Python |
| 🔧 C   | 🔧 Php     | 🔧 Lua    |

## Achievements

- ★ Completed ME-105: Product development for the developing world course
- ★ Vantage level certificate in British English fluency from Cambridge University
- ★ Qualified GATE- Mechanical Engineering in 2014, 2015 and 2016
- ★ MHRD fellowship during M.Tech, 2014-2016
- ★ MHRD fellowship at Indian Institute of Technology (IIT), Kharagpur since July, 2016

## Websites Designed

- 🌐 <https://www.techkeralites.tk>
- 🌐 <https://www.tbnitin.tk>

## Hobbies

- |                        |                 |                       |
|------------------------|-----------------|-----------------------|
| ✋ Reading              | ✋ Swimming      | ✋ HAM Radio Operation |
| ✋ Arduino® Programming | ✋ Playing Flute | ✋ Cooking             |

## References

To be provided upon request

## Skills

Team Work

Willingness to learn

Time management

Integrity

Leadership

Patience

## Schooling

- 🎓 Kendriya Vidyalaya Akkulam
- 🎓 Kendriya Vidyalaya Ooty
- 🎓 Kendriya Vidyalaya Pattom
- 🎓 Kendriya Vidyalaya Port Blair
- 🎓 Kendriya Vidyalaya Kottayam

## Languages

- 📖 English - Speak, Read, Write
- 📖 Hindi - Speak, Read, Write
- 📖 Malayalam - Speak
- 📖 Tamil - Speak