

# National Institute of Technology, Tiruchirappalli:

## Performa for CV of Faculty/ Staff Members

### Curriculum Vitae



#### Brief Profile:

I, M. Shahul Hameed, working as an Associate Professor in the Department of Mechanical Engineering, NIT Trichy. I joined here as Lecturer in January 1997. I have started my teaching career as Lecturer during August 1988 in Crescent Engineering College, Chennai. I have become an Associate Professor here during July 2010.

I've Undertaken MHRD sponsored MODROBS Project for setting up Refrigeration and Air-conditioning Lab in our Mechanical Department. I also Coordinated Short-term certificate courses in Refrigeration and air-conditioning conducted by outside Agencies in collaboration with REC and designed syllabi for them and guided them in conducting examinations and awarding marks. Helped them setup Lab facilities for their students.

1. Name: Dr. M. Shahul Hameed.
2. Designation: Associate Professor
3. Office Address: Department of Mechanical Engineering, NIT, Trichy.
4. Telephone (Direct) (Optional):  
Telephone: 0431 2503414                      Extn (Optional):  
Mobile (Optional): 9677579292
5. Email (Primary): [hameed@nitt.edu](mailto:hameed@nitt.edu)  
Email (Secondary):
6. Field(s) of Specialization: Thermal Engineering/Refrigeration and Air-Conditioning
7. Employment Profile:

Job Title	Employer	From	To
Associate Lecturer	Crescent Engineering College, Chennai	Aug.1988	Aug.1990
Lecturer	Sathyabama Engineering College, Chennai	June 1992	June 1994
Lecturer	S.R.M. Engineering College, Chennai	Dec'1994	Dec'1996
Lecturer	National Institute of Technology, Tiruchirappalli. India	Jan'1997	July'2010
Associate Professor	National Institute of Technology, Tiruchirappalli. India	July 2010	Till date

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### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	National Institute of Technology, Tiruchirappalli. India	2020		Mechanical Engineering
M.E	College of Engineering, Guindy (Anna University)	1992	I	Refrigeration & Air-Conditioning
B. E	A.C.College of Engg.and Technology, Karaikudi. MK University	1987	I	Mechanical Engineering

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Faculty Advisor	NIT TRICHY	Jan 2020	Sep 2021
Class committee and PAC Chairman	NIT TRICHY	Aug 2020	Jul 2021

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

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### 13. Details of Academic Work:

#### i) Curriculum Development:

Member Board of Studies for REC/NIT autonomous syllabus. Designed the Syllabus for the subjects – “Refrigeration and Air-conditioning” and “Power Plant Engineering”.

Framed the syllabus for new elective Advanced Refrigeration and Air-Conditioning” for M.E. students.

Developed the Lab Manual for Refrigeration and Air-conditioning Laboratory.

Developed the study material for Basic Mechanical Engineering for three different syllabi.

Developed the study material for Engineering Practice Class.

#### ii) Courses taught at Postgraduate and Undergraduate levels

##### UG

- i) Refrigeration and Air-conditioning
- ii) Power Plant Engineering
- iii) Thermodynamics
- iv) Thermal Engineering
- v) Engineering Graphics
- vi) Basic mechanical Engineering
- vii) Fluids and Thermal Engineering

##### PG

Advanced Refrigeration and Air-conditioning

#### iii) Projects guided at Postgraduate level.

Various Projects in the field of R&AC, Safety and Nano technology field.

Title	Student Name	Year
Thermal Management of Electronics Packaging by Thin Film Heat Spreaders	Kulkarni Sanjay Shamsunder	2017
Investigation on the Effect of Rectangular Grooves and CNT Coating on Condensation Heat Transfer	Ravat Brijesh Bharatbhai	2017
Performance Investigation of a Lab Scale Latent Heat Storage Prototype Using Sugar Alcohol as Phase Change Material	Dharmendra Kumar	2017
Experimental Investigation of Nano Enhanced PCM Based Thermal Interface Material	Ramech.B	2017
Thermal Management of Electronics Package by Nano Enhanced Thermal Interface Material	Ramech.B	2016
Measurement of Light Transmittance of Nanofluid Based Solar Thermal Energy System	Ajin Ghose K. K	2015
Experimental Study on Solar Driven Hybrid Generation System with Enhanced Heat Transfer by Nanofluid	Ajin Ghose K. K	2014
Experimental Study on Heat Transfer Characteristics of Al <sub>2</sub> O <sub>3</sub> -CNT Nanofluid in a Tube Fitted with Flute insert	Jineesh	2015
Experimental Study on Heat Transfer Characteristics	Jineesh	2014

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of Al <sub>2</sub> O <sub>3</sub> -CNT Nanofluid in a Tube Fitted with Conical Strip Insert		
Experimental Study on Heat Transfer and Pressure Drop Characteristics of Al <sub>2</sub> O <sub>3</sub> -CNT Hybrid Nanofluid	Harikrishnan S	2014
Experimental Study on Heat Transfer and Pressure Drop Characteristics of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid in Plain Tube with Helical Screw Tape Inserts	Harikrishnan S	2013
Experimental Investigation for Three-Dimensional Cooling of PCM- Based Heat Sink with Different Internal Fins	Srikanth Salyan	2013
Heat Transfer Enhancement for Electronic Liquid Cooling System with Rotating Metal Inserts	Srikanth Salyan	2012
Experimental Investigation on Flow Boiling Heat Transfer Characteristics in Microchannel with Diamond and CNT Coating Over Copper Heatsink.	Aravind.S	2013
Experimental Study on Heat Transfer and Pressure Drop Characteristics Using Al <sub>2</sub> O <sub>3</sub> -Dowtherm Oil Nanofluid in a Circular Tube Fitted with Helical Screw Tape Insert	Aravind.S	2012
Design of Non-Linear Model for Prediction of Transformer Oil Residual Operating Time Using ANN	Minhaj Ahmed Ansari	2015

**iv) Other contribution(s)**

Prepared Video Cassette for Engineering Practice for I year B.E.  
Demonstration of Packaged AC in CSG to VI Semester Mechanical Students.

**14. Details of Major R&D Projects Nil**

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

**15. Number of PhDs guided Nil**

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award

**16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)**

- a) Participated in the “Train the Trainer program on TEAM BUILDING” Conducted by the ISTE and Canada India Institutional Cooperation Project (CIICP) at TTTI Chennai from 11<sup>th</sup> to 13<sup>th</sup> April'1996.

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- b) Attended an AICTE-ISTE sponsored Summer School of **1-week** duration on “**Industry Institute Partnership**” organized by REC Trichy during the period 10-15<sup>th</sup> March’1997.
- c) Attended STTP of **2 weeks** duration sponsored by AICTE- ISTE on “**Low polluting fuels for Automobiles**” organized by Annamalai University during the period 10-21 June ‘2002.
- d) Attended STTP of **2 weeks** duration sponsored by AICTE- ISTE on “**Sustainable industrial growth- A solution for cleaner environment**” organized by NMAM Institute of Technology, Nitte, Karnataka during the period 19-31 August ‘2002.
- e) Attended STTP of **2 weeks** duration sponsored by AICTE- ISTE on “**Recent trends in Modeling and Analysis of Manufacturing systems**” organized by NIT Trichy during 16-27 December, 2002.
- f) Attended One day workshop on “**Advanced Refrigeration System**” on 9<sup>th</sup> Jan’ 2004 at IIT Madras.
- g) Attended one-week ISTE sponsored STTP on “**Advances in Solar Energy Technologies**” at Institute of Technology, Nirma University, Ahmedabad in Dec’2006.
- h) Attended Short Term Training programme on “**Recent Trends in IC engine Testing and Analysis**” at NIT Trichy during 2007.
- i) Attended ISTE workshop during 29<sup>th</sup> Nov-10<sup>th</sup> Dec 2011, on **Heat Transfer** conducted by IIT Mumbai at remote centre in NIT Trichy.
- j) Attended ISTE workshop during 11<sup>th</sup> Dec- 21<sup>st</sup> Dec 2012, on **Engineering Thermodynamics** conducted by IIT Bombay. at remote centre in NIT Trichy.

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Conenor) Nil

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
International Mechanical Engineering Congress 2019	International	29.11.2019 To 01.12.2019	Secretary	NIT, Trichy

18. Invited Talks delivered Nil

Topic	Date	Inviting Organization

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life	Indian Society of Heating Refrigeration and Air-conditioning Engineers. (ISHRAE)	
Life	Indian society of Technical education (ISTE).	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	September 16-18 2011	Int.Conference on Manufacturing science and technology.

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
M. Shahul Hameed, S.P.Sivapirakasam, K.R.Balasubramanian , R.Nagalakshmi	Investigations on fume formation rate in shielded metal arc welding process using different electrodes	Advanced Materials Research	Vols. 383-390	4672-4677	2012	
S. Suresh, K.P.Venkatesh, M.Shahul Hameed, J.Sarangan	Turbulent heat transfer and pressure drop characteristics of dilute water based Al <sub>2</sub> O <sub>3</sub> -Cu hybrid nanofluids	Journal of nanoscience and nanotechnology,	14(3)	2563-2572.	2014	1.28
Hameed, M.S. and Suresh, S.,	Convective Heat Transfer and Pressure Drop Characteristics of Al <sub>2</sub> O <sub>3</sub> -CNT/Water Hybrid Nanofluid in Straight Circular Tube	Journal of Nanofluids,	6(4),	743-750.	2017	1.739

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	Under Turbulent Flow.					
M.Shahul Hameed, S.Suresh, Rajive kumar singh	Comparative study of heat transfer and friction characteristics of water-based Alumina-copper and Alumina-CNT hybrid nanofluids in laminar flow through pipes	Journal of thermal analysis and calorimetry	136 (1)	243-253	2019	4.626

**(B) Conferences/Workshops/Symposia Proceedings**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

**(C) Books & Monographs**

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number