RESUME



N.Mohammed Raffic

Assistant Professor

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# **Google Scholar Profile:** [**https://scholar.google.com/citations?user=S\_R635wAAAAJ&hl=en**](https://scholar.google.com/citations?user=S_R635wAAAAJ&hl=en)

**Vidwan Profile:** [**https://vidwan.inflibnet.ac.in/profile/260786**](https://vidwan.inflibnet.ac.in/profile/260786)

# **Objective**

Seeking a challenging and rewarding opportunity in the areas of research which is inline with my academic background and to apply the acquired knowledge for the upliftment of the Society.

**Education**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the Degree** | **Specialization** | **Year of Passing** | **Name of the College** | **Name of the University** | **% of Marks / Grades obtained** | **Class obtained** |
| B.E., | MechanicalEngineering | 2005 | C.S.I College of Engg | Anna University , Chennai | 67 % | FIRST |
| M.E., | Engineering Design (PT) | 2013 | Regional Centre , Madurai | Anna University , Chennai |  8.17 | FIRST |
| Ph.D (Pursuing) | MechanicalEngineering | - | Anna University , Chennai  | Anna University , Chennai | - | Received Provisional Confirmation |

# **WORKING EXPERIENCE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the College** | **Designation** | **Joining Date** | **Relieving Date** | **Experience** |
| **Years** | **Months** | **Days** |
| Dr.Nallini Institute of Engineering & TechnologyNehru College of Aeronautics & Applied Sciences Nehru Institute of TechnologyNehru Institute of Technology | LecturerLecturerAssistant ProfessorHoD (i/c) | 26-06-200918-01-201123-05-201126.10.2021 | 31-12-201022-05-201125.10.2021Till Date  | 0100100 | 06040505 | 05040202 |
| Total | **12** | **09** | **23** |

**Areas of Interest**

* Additive Manufacturing
* Topology Optimization
* Computational Fluid Dynamics
* Hybrid Composites
* MCDM

**Examinations**

1. **Anna University Theory and Practical Examinations**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Position Held**  | **Semester’s**  |
| 1 | Overall EMS Coordinator  | Nov/Dec 2014 – Till Date  |
| 2 | Assistant EMS Coordinator  | Nov/Dec 2012 – Apr/May 2014 |
| 3 | Reserved Hall Superintendent  | Nov/Dec 2011 – Apr/May 2012 |

1. **State and Central Government Examinations**

Acted **as Centre Superintendent and SPOC** for the State and Central government examinations conducted at the institute.

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Date** | **Name of Examination** | **Category** |
| 1 | 28/12/2014 | Postman / Mail Guard Examination – Indian Postal Service  | Central Government  |
| 2 | 14/11/2015 | Postman / Mail Guard Examination – Indian Postal Service | Central Government |
| 3 | 31/01/2016 | Assistant Engineer Exam – TNEB  | State Government  |
| 4 | 24/04/2016 | Multi Tasking Staff Examination – Indian Postal Service | Central Government |
| 5 | 11/12/2016 | Postman / Mail Guard Examination – Indian Postal Service | Central Government |
| 6 | 26/03/2017 | Batch Trade Apprentice – Ordanance Factory Board  | Central Government |

**Guest Lectures / Webinars Delivered**

* Presented a webinar on **“Additive Manufacturing – Fused Deposition Modelling”** for the students of Mechanical Engineering at SVS College of Engineering, Coimbatore on **2nd July 2020.**
* Handled Two days classes on **“Engineering Graphics”** for the students of Government College of Engineering, Thalassery as per the syllabus of Kerala Technological University.

**FDP/STTP/Workshops Attended (External)**

* Attended **One week FDP** on **“Internet of Things”** conducted by NITTTR, Chandigarh from 10/04/2020 – 14/04/2020.
* Attended **Online workshop** **on “Research Scopes in Composite Material”** conducted by Chennai Institute of Technology on 14/05/2020.
* Attended **webinar** on **“3D printing technologies and challenges”** conducted by Sreenidhi Institute of Science & Technology, Hyderabad on 20/05/2020.
* Attended webinar on **“Case studies on Biomedical Applications of 3D printing”** conducted by Sreenidhi Institute of Science & Technology, Hyderabad on 23/05/2020.
* Attended **One Day FDP** on **“Intellectual Property Rights and Innovation”** at Chendhuran College of Engineering and Technology, Pudukkotai on 21/09/2019.
* Attended **Two Days Workshop** on **“Hands on Training in LATEX & MATLAB”** at Amrita School of Engineering, Coimbatore on 03/05/2019 – 04/05/2019.
* Attended **One Week FDP** on **“Dynamics of Machines”** at Madras Institute of Technology , Chennai from 18/06/2018 – 25/06/2018.
* Attended **One Week Short Term Course**  on **“Vibro-Acoustics”** at Indian Institute of Technology , Mumbai from 04/12/2017 – 08/12/2017.
* Attended **One Day FDP** on **“Insights in to Research”** at SRM University, Chennai on 29/07/2017.
* Attended **One Day Workshop** on **“3D Printing”** at IITM Research Park , Chennai from 03/05/2019 – 04/05/2019.
* Attended **Three Days Workshop** on **“ A Hands on Training – Engineering Simulation using ABAQUS”** at Ramco Institute of Technology , Rajapalayam from 15/06/2017 -17/06/2017
* Attended **One Day National Level Workshop** on **“Optimization and Simulation in Research”** at Anna University, Chennai on 16/03/2017.
* Attended **Two Days Workshop** on **“Hands on Training in LATEX & MATLAB”** at Amrita School of Engineering, Coimbatore on 03/05/2019 – 04/05/2019.
* Attended **Two Days Workshop** on **“NPTEL Courses”** at Indian Institute of Technology , Madras from 05/04/2011 – 06/04/2011.

**Workshops / Seminars Organized**

* Organized **One Day Workshop** on **“Computational Fluid Dynamics “** for the students of Mechanical and Aeronautical Engineering on 13/09/2017.
* Organized **One Day Workshop** on **“Solidworks“** for the students of Mechanical Engineering on 12/08/2013.

**FDP/STTP/Workshops Attended (Internal) – Around 20**

**Additional Responsibilities**

1. Acted as IIPC Coordinator from 2012 -2014
2. Acted as Symposium Coordinator for Mechism12K
3. Acted as Co- Coordinator for Polyfest 2018 – National Level Contest
4. Acted as Class Advisor for 2010 -2014 , 2012 – 2016 (B Section – 7th and 8th Sem) , 2015 -2019 students on mechanical engineering

**Publications**

1. **Mohammed Raffic N,** Ganesh Babu , M. Shinilnath R. A. B. Rajkumar S. RadhaKrishnan ,“Contribution Of Experimental Design And Multi Response Optimization Techniques To Optimize Diesel Engine Design And Operating Variables” , Vidyabharati International Interdisciplinary Research Journal (Special Issue), October 2021.
2. **Mohammed Raffic N** , Ganesh Babu , Rajasekaran Saminathan , Afaf M. Babeer , Hadidi H. , Akshay Y.P. , “Experimental investigation on compression strength of EPOXY/PVC blend with different fibre glass reinforcements” , Materials Today : Proceedings , August 2021.
3. Ram Kumar A.C. , **Mohammed Raffic N** , Ganesh Babu K. , Selvakumar S. “Static structural analysis of spur gear using ANSYS 15.0 and material selection by COPRAS, MOORA techniques” Materials Today Proceedings , April 2021 , Volume 47 , Pages 25-36.
4. Gulja.S.Nair , **N.Mohammed Raffic** Dr.K.Ganesh Babu P.MadhanS.Radha Krishnan, “Potential Applications of IoT in Soil and Water Management System – Review”, International Conference On Innovative Agricultural Engineering And Food Technology Strategies For Profitable Agriculture (ICAEFT) , December 2020. (Published in Conference Proceedings).
5. **N.Mohammed Raffic** Dr.K.Ganesh Babu S.Srinivasanc Dr.S.Thirumurugaveerakumar R.Bharathi Kanna , “ Experimental Investigation on Surface Roughness and Cutting Tool – Workpiece Interface Temperature for AA6061 using CRITIC and TOPSIS Techniques”, International Conference on Recent Advances in Design, Materials and Manufacturing, Materials Today Proceedings , October 2020.
6. S.Srinivasan , Dr. S. Thirumurugaveerakumar , N. Nagarajan , **N. Mohammed Raffic** , Dr. K. Ganesh Babu, “A Review of Optimization Techniques in Machining of Composite Materials” , International Conference on Recent Advances in Design, Materials and Manufacturing, Lecture Notes in Mechanical Engineering October 2020.
7. **N Mohammed Raffic** Dr.K Ganesh Babu Dr.S Selvakumar S.Radhakrishnan , “Experimental Investigation on the Effect of Fused Deposition Modelling Parameters for HIPS Material by Experimental Design and MRO Techniques “ , International Conference on Recent Developments in Materials and Applications , IOP Conference series – Materials Science and Engineering , September 2020.
8. **N.Mohammed Raffic** Dr.K.Ganesh Babu Dr.S.Selvakumar S.Radhakrishnan K.Hari Prasanth , “Mono Optimization of Fused Deposition Modeling Parameters for HIPS Material by Designed Experiments” , International Conference on Recent Developments in Engineering , Danish Ahamed Institute of Technology , July 2020.
9. S.Selvakumar, B. Ganesh Babu, **N.Mohammed Raffic**, K. Ganesh Babu, “ [Experimental Investigation on Mechanical Behavior and Microstructural Characterization of AA7075 Reinforced with TiB2 Particles Produced Via Stir Casting Process](https://irjet.net/archives/V7/i7/IRJET-V7I7262.pdf)”, International Research Journal of Engineering and Technology (IRJET) Volume 7, Issue 7, July 2020.
10. Rosy Subha Hannah.R **Mohammed Raffic.N** Dr.K.Ganesh BabuSreeshin M**Anthony Mario Rozario , “**Study on Various Types of Nose Cone Profiles at Supersonic Speed through Analytical, Experimental and Numerical Simulation Methods “ , Volume 14 , Issue 6 , 2020, pp 2651 – 2675.
11. S.Srinivasan , Dr.S.Thirumurugaveerakumar , **N.Mohammed Raffic** , Dr.K.Ganesh Babu “ Mono and Multi Response Optimization of End Milling Parameters for AA6061 by Taguchi based GRA and TOPSIS Methodology”, Journal of Xidian University , Volume 14 , Issue 6 , 2020, pp 137-166.
12. **N.Mohammed Raffic** , Dr.K.Ganesh Babu, Arjun.C , AshiqNowfel, “Pilot Testing of FDM Samples by Taguchi’s L4 Orthogonal Array and Multi Response Optimization using GRA and DEAR Approaches” , , International Research Journal of Engineering and Technology , Vol 7 Issue : 05 , May 2020.
13. S.Radhakrishnan , M.Pichumani ,**Mohammed Raffic.N**, Dr.K.Ganesh Babu, “Multi Response Optimization of Hard Turning Process Parameters for OHNS Steel by Taguchi Based Grey Relational Analysis and Assignment of Weights Method” , International Research Journal of Engineering and Technology , Vol 7 Issue : 05 , May 2020
14. Allocious Britto RajKumar.R, **Mohammed Raffic.N**, Dr.K.Ganesh Babu,Vignesh.V, “Comparative Study on Effective Turbulence Model for NACA0012 Airfoil Using Spallart – Allmaras as a Benchmark”, International Journal of Trend in Scientific Research and Development”,Volume - 4, Issue - 3(APRIL-20).
15. T.Banu ,Dr.K.Ganesh Babu, **N. Mohammed Raffic**, A. J. MahaBoopBadhusa , “Experimental Investigation on Mechanical Behavior of Banana, Coconut and Glass Fibre Reinforced Composites”,International Journal of Scientific Research and Engineering Development, Volume 3 Issue 2, Mar-Apr 2020.
16. S.Selvakumar , Dr.B.GaneshBabu , **N. Mohammed Raffic** , Dr.K.Ganesh Babu ,“ Experimental Investigation on Effect of FSW Parameters on Hardness and Microstructure of AA 6061 and AA 5083” , International Journal of Research in Engineering, Science and Management, Volume-3, Issue-2, February -2020.
17. T. Banu, Dr.K. Ganesh Babu, **N. Mohammed Raffic**, A. J. MahaBoopBadhusa , “[**Investigation On Drag Force Reduction by Aerospikes Using CFD**](https://www.ijresm.com/articles/investigation-on-drag-force-reduction-by-aerospikes-using-cfd/)”, International Journal of Research in Engineering, Science and Management, Volume-3, Issue-2, February -2020.
18. **N.Mohammed Raffic**, Dr.K. Ganesh Babu, S. Selvakumar, AllociousBrittoRajkumar , “Experimental Investigation of Gyroscopic Couple by Response Surface Methodology”,International Journal of Research in Engineering, Science and Management, Volume-3, Issue-1, January-2020
19. **N.Mohammed Raffic**, Dr.K.Ganesh BabuP.Madhan, “Application Of Taguchi’s Experimental Design And Range Analysis in Optimization Of FDM Printing Parameters For PET-G, PLA and HIPS” , International Journal of Scientific & Technology Research Volume 8, Issue 09, September 2019, ISSN 2277-8616 (SCOPUS INDEXED)
20. C. Shobha , Dr. K. Ganesh Babu ,**N.Mohammed Raffic**, “Optimization of Turning Process Parameters for EN24 Steel Alloy using Experimental Design” , International Journal of Trend in Scientific Research and Development, Volume: 3 , Issue: 3 , Mar-Apr 2019.
21. **N.Mohammed Raffic** , Dr.K.Ganesh Babu , Arjun Kumaran , Kiran G.R , “Parametric Optimization Study of ABS Material Using FDM Technique for Fatigue Life Prediction”,International Journal of Research in Advent Technology, Vol.6, No.11, November 2018.
22. **Mohammed Raffic.N**, GaneshBabu.K, ArumKumar.K.N,“Design Evaluation and Optimization of IC Engine Connecting Rods – A Review”, International Journal of Trend in Scientific Research and Development”,Volume - 2, Issue - 3(MAR-18), PP 88-96.
23. **Mohammed Raffic.N** ,Ganesh Babu.K ,ArunKumar.N , “ Study of Connecting Rod Behavior and Analysis Methods – Review”, International Journal for Research & Development in Technology” , Volume-9,Issue-1(JAN-18) ISSN (O) :- 2349-3585.
24. **N.Mohammed Raffic** , Dr. K.Ganeshbabu , ManojKannan.M , Arul Mani.G , NandhuKrishnan.R , Midhuvin George, “Effect of FDM Process Parameters On Vibration Properties Of PET-G and ABS Plastics”,International Journal on Mechanical and Production Engineering Volume 3: Issue 1: March 2017, pp 28 - 38
25. **N.Mohammed Raffic** , Dr. K.Ganeshbabu , Palaniappan P. L , RajeshKannan P , Santhanabharathi N S , Venkatramanan S “ Effect Of FDM Process Parameters in ABS Plastic Material”, International Journal on Mechanical and Production Engineering, Volume 3: Issue 1: March 2017, pp 14 - 23.

**Journal Peer Reviewer Roles**

* InSc – Journal of Mechanical Engineering
* Open Journal of Optimization
* Advances in Science, Technology and Engineering Systems Journal
* World Journal of Engineering and Technology
* Materials Science and Applications

**Awards & Recognitions**

* Received **Young Researcher Award** from **Institute of Scholars (InSc) , Bangalore** for the Month of **July 2021.**
* Awarded **Overall Coordinator – EMS** during **ASPIRE 2015**
* Certified for **Best Library Utility** for the year **2018 – 2019**.
* Received Certificates and Cash awards for achieving high Pass Percentage for different subjects.

**Personal Details**

Date of Birth: 10th Feb 1984

Age: 38

Father’s Name: Mr.M.Noor Mohamed (Late)

Languages Known: Tamil, English

Martial Status: Married

**Declaration:**

I hereby declare that all the above information furnished by me in this resume is correct to the finest possible extent till date.

 

 **(N.Mohammed Raffic)**