



## Mrs Nagarathna H S

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Address: Bengaluru ,Karnataka,India - 560056

## Expertise

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### Electrical and Electronic Engineering

Digital Electronics and Communication

## Work experience

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1. Dr Ambedkar Institute of Technology, Bengaluru 2015 — Present

Assistant Professor  
Bengaluru

2. Dr Ambedkar Institute of Technology, Bengaluru 2015 — Present

Assistant Professor  
Bengaluru

3. Dr Ambedkar Institute of Technology, Bengaluru 2015 — Present

Assistant Professor  
Bengaluru

## Education

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1. GATE2017 - 2017

IIT

## 2. M.Tech - 2011

NITTE UNIVERSITY

## Honours and Awards

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### 1. International Eminent Young Scientist Award 2021 - 2021

I2OR is Registered MSME with Ministry of MSME, Govt. of India(UDYAM-PB-20-0002405)

### 2. NATIONAL SCIENCE DAY 2021 - 2021

Karnataka Science and Technology Academy  
Udayabhanu Centre for Advanced Studies in Science  
Karnataka State Council for Science and Technology  
Sanchi Foundation

### 3. GATE2017 - 2017

IITR

## Membership In Professional Bodies

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### 1. ISTE, 2019

Life time

### 2. IEEE Robotics and Automation, 2017

Yearly

### 3. IFRP, 2017

Lifetime

### 4. IETE, 2017

Lifetime

### 5. IETE, 2017

Life time

# Membership In Committees

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1. IFRP, 2017  
Member

## Patent

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1. Pregnancy Assay-System for Automated Home Test Analysis Using Soft Computing  
Inventor(s): R. Evance Leethial, Assignee: R. Evance Leethial  
Published: 0000-00-00
2. The Medical Devices Connectivity system and Method using by Deep learning Algorithm  
Inventor(s): N Raghu, Assignee: N Raghu  
Published: 0000-00-00

## Publication

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1. Virtual Prototype of Pick and Place Robot Using Simulink/VRML  
H S Nagarathna #1 , Dr Ramesh Kumar K R \*2  
Journal of Xidian University, Volume 17, Year 2023, Pages
2. Real time Object Tracking System using Raspberry P  
NAGARATHNA HS  
Journal of Applied Science and Computations, Volume 9, Year 2022, Pages 39-44
3. "Design and Implemen tation of IoT based Vehicle tracking and Theft control"  
NAGARATHNA HS  
Internation al Journal of Advance Research and Innovative Ideas in Education, Volume 7, Year 2021, Pages
4. Artificial Intelligence: As a Modern Teaching Method  
NAGARATHNA HS  
Mapping Innovations - an Outlook of Stakeholders: NSD2021BLR, Volume 5, Year 2021, Pages 1
5. Generation of Narrowband Signals for Wireless Body Area Networks  
NAGARATHNA HS  
International Research Journal of Engineering and Technology (IRJET) e, Volume 8, Year 2021, Pages

6. Design and Implementation of IoT based Vehicle tracking and Theft control

NAGARATHNA HS

International Journal of Advance Research and Innovative Ideas in Education, Volume 7, Year 2021, Pages 1

7. Generation of Electricity Through Speed Breaker Mechanism”

NAGARATHNA HS

International Journal for Scientific Research & Development , Volume 7, Year 2019, Pages 130

8. “IoT Based Crop Loss Prediction, Assessment and Evidence Collection”

NAGARATHNA HS

International Journal for Scientific Research & Development, Volume , Year 2019, Pages 460-462

9. Real Time Communication between Deaf Dumb and Blind using MATLAB

NAGARATHNA HS

International Journal for Scientific Research & Development (IJSRD), Volume 6, Year 2018, Pages pp. 130;

10. Optimal Sizing And Stacking Sequence Of Composite Skid Landing Gear Of A Helicopter” International Journal Of Mechanical Engineering & Technology (IJMET) Volume 9, Issue 3, March 2018, pp. 32-45; ISSN Print: 0976-6340 and ISSN Online: 0976-6359; SCOPUS INDEXED Journal Impact Factor: 9.2286 Calculated by GISI Peer reviewed International Journal

Nagarathna H S

International Journal Of Mechanical Engineering & Technology (IJMET), Volume 9, Year 2018, Pages 32-45

11. Optimal sizing and stacking sequence of composite skid landing gear of a helicopter

Ramesh Kumar K.;Krishna P.;Nagarathna H.

International Journal of Mechanical Engineering and Technology, Volume 9, Year 2018, Pages 32-45

12. Virtual Prototype with Rigid and Flexi-Body Concept to Development of Multifunctional Robot

NAGARATHNA HS

Journal for Research , Volume 3, Year 2017, Pages 2395- 7549

13. Image Resizing using Seam Carving

NAGARATHNA HS

International Journal of Engineering Science and Computing,, Volume 7, Year 2017, Pages 14757 - 14761

14. [PDF] from academia.edu Virtual Prototype with Rigid and Flexi-Body Concept to Development of Multifunctional Robot

NAGARATHNA HS

Journal for Research| Volume, Volume 3, Year 2017, Pages 7

15. **Virtual conceptual design and analysis of multifunctional robot”**  
NAGARATHNA HS  
International Journal of Research in Engineering and Technology (IJRET), Volume 5, Year 2016, Pages 2319- 1163
16. **A Review on Energy Efficient CAGDRINA: Data Routing InNetwork Aggregation Routing Technique**  
NAGARATHNA HS  
International Journal of Advanced Scientific Research and Publications,, Volume 5, Year 2016, Pages 87-89.
17. **A Review on Energy Efficient CAG-DRINA: Data Routing In-Network Aggregation Routing Technique**  
NAGARATHNA HS  
International journal of Advanced Scientific Research Publication. (IJASRP ), Volume 2, Year 2016, Pages 5
18. **Design and Simulation of Robot Vision System Using Simulink**  
NAGARATHNA HS  
International Journal of Scientific & Engineering Research, Volume 3, Year 2012, Pages 6
19. **“Design and Simulation of Robot Vision System Using Simulink”**  
NAGARATHNA HS  
International Conference on emerging trends in engineering-NMAMIT, Nitte., Volume , Year 2011, Pages
20. **“Design of Robot Vision System Using MATLAB”**  
NAGARATHNA HS  
National Conference , Volume , Year 2011, Pages
21. **“Development of Algorithms for Robot Vision System Based on MATLAB Simulink”**  
NAGARATHNA HS  
National Conference on Dept. of Electrical and Electronics, NMAMIT, Nitte., Volume , Year 2010, Pages