

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Curriculum Vitae



1. Name: **B. SHAMEEDHA BEGUM**
2. Designation: **ASSISTANT PROFESSOR**
3. Office Address: **DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING**
4. Telephone (Direct) (Optional):
Telephone : 04312503215 Extn (Optional):
Mobile (Optional):
5. Email (Primary):shameedha@nitt.edu Email (Secondary) :
6. Field(s) of Specialization: **COMPUTER ARCHITECTURE**
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT, Trichy	01-12-2008	Till Date
Programmer Analyst	Cognizant Technology Solutions,Coimbatore	01-07-2007	30-11-2008
Lecturer	CIT,Coimbatore	1-6-2004	30-8-2005

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	NITT	2019	-	Cache Memory
M.E.	ANNA UNIVERSITY	2007	Ist - Distn.	Embedded And Real Time Systems
B.E.	AVINASHILINGAM DEEMED UNIVERSITY	2004	I Class	Computer Science

9. Academic/Administrative Responsibilities within the University

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Position	Faculty/Department/Centre/Institution	From	To
Grievances of the OBC & PWD Minority Employees Committee Member	NITT	17-09-2021	Till Date
Member-Online Degree Sub Committee	NITT	09-08-2021	Till Date
Faculty Advisor- Environmental Club	NITT	28-07-2021	Till Date
Member-Library Advisory Committee	NITT	08-12-2020	Till Date
Faculty Advisor-IEEE SB-COMPUTER SOC	NITT	01-07-2020	30/10/2021
Staff Advisor-Pragyan	NITT	01-07-2017	2018-05-31
Faculty Advisor-Vortex	NITT	01-07-2015	2015-05-31
Member- CSG	NITT	29-05-2009	2011-03-30

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Training Programme-Expert	IMTI-Tamil Nadu	2009	-
Inspection Committee Member	Anna University	2014	-
MTech Project Guidance	IIIT Srirangam	2016	
Doctoral Committee Member	Coimbatore Institute of Technology	2020	Till date
Doctoral Committee Member	SRMIST-Kattankulathur, Chennai	2020	Till date

11. Awards, Associateships etc. Received Prime Minister Research Fellowship for Kannadasan K (Research Scholar)

12. Fellowships:NA

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13. Details of Academic Work

(i) Curriculum Development: Involved in BOS

(ii) Courses taught at Postgraduate and Undergraduate levels:

- Advanced Microprocessor Systems
- Numerical Computing
- Microprocessor Systems
- Logical Foundations of Computer Science
- Digital Computer Fundamentals
- Digital Systems Design(Theory and Lab)
- Mobile Applications Development (Theory and Lab)
- Parallel Computer Architecture
- C Programming(Theory and Lab)
- Introduction to Algorithms
- Real Time Systems
- Computer Organization
- Computer Architecture
- Parallel Architecture and Programming

(iii)Projects guided at Postgraduate level: 27 Projects

(iv)Other contribution(s): Involved in various activities such as Faculty/Class advisor for B.Tech students, Time Table Incharge, NBA committee member, Prurchase Initiator, TEQIP- Dept., Coordinator, Project Committee member Etc.,

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Energy Efficient Implementation Of Multi Modular Exponential Techniques For Public Key Crypto Systems	DST	04.05.2014	04.05.2014	Completed
Wireless Seat Belt Remainder	Rane Group Of Industries	01.08.2021	Till Date	Ongoing

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15. Number of PhDs guided: 03(Ongoing)

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
11th May 2020 - 15th May 2020	Faculty Development Program on "E-Content Development"	National	Participant	NITTTRC, Chennai	NITT
26th February 2019	One Day Workshop on " Hardware Security"	National	Participant	SETS Chennai	SETS Chennai
2nd to 6th July 2018	One Week Summer School on "Computer Architecture"	National	Participant	IIT Kanpur	IIT Kanpur
11th - 16th September 2017	One Week Faculty Development Program on "Parallel Programming for HPC"	National	Participant	IISC Bangalore	IISC Bangalore
18th August 2015	One day Digital India Workshop	National	Participant	NITT	NITT
25th May 2015 to 30th May 2015	Two Weeks ISTE SSTEP on "Introduction to algorithms"	National	Participant	NITT	NITT
Dec 2010	Two Day workshop on "Intelligent Robotics "	National	Participant	IIT, Bombay	IIT, Bombay
Jun 29 - Jul 4 2009	One week workshop on	National	Participant	IIT Kanpur	IIT Kanpur

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	"Programme Optimization for Multicore Architectures"				
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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Five Days Online workshop on Cloud Computing and Big Data	National	May 17- 21, 2021	Co-Convenor	NITT
Five Days Online workshop on "Cyber Security and Ethical Hacking"	National	March 22 -26, 2021	Co-Convenor	NITT
Five Days FDP on "Smart Grid Features and Blockchain Technology for Smart Grid"	National	Nov 16-20,2020	Co-Convenor	NITT
Five Days Short term course on "Deep Learning"	National	July 6 – 10, 2020	Co-Convenor	NITT
Conference on “Secure Reconfigurable Architectures And Intelligent Computing”	International	Nov 28-30, 2019	Co-Convenor	NITT
14 Days Computer Training for Police Personnel	National	June 13-24, 2018	Co-Convenor	NITT
Five days Workshop on "Xilinx SoC: FPGA Based Design"	National	July 30 –Aug 3, 2018	Co-Convenor	NITT
Two days Workshop on "Digital Design Using XILINX SDSoC Software Tool"	National	March 16-17, 2017	Co-Convenor	NITT
Four days Workshop on "Introduction to	National	Feb 24-27, 2017	Co-Convenor	NITT

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Embedded Systems with Application to IoT"				
Two Days Workshop on "Advanced Embedded System Design on Zynq Using Vivado Targeting Zed Board"	National	Aug 28-29, 2015	Co-Convenor	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
FDP on Embedded Systems	03/03/2021 To 04/03/2021	College of Engineering, Kottayam, Kerala

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Senior Member	IEEE	93849938

20. Academic Foreign Visits

Country	Duration of Visit	Programme
London, UK	October 17-18, 2017	International Conference on Internet of Things and Machine Learning 2017

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Jobin Jose, Shameedha Begum, N Ramasubramanian	Effectiveness Evaluation of Replacement Policies for On-Chip Caches in Multiprocessors	IJERTCS	13	1-12	2021	

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Kokila J, Arjun Murali Das, Shameedha B, Ramasubramanian N	Hardware Signature Generation Using a Hybrid PUF and FSM model for an SoC Architecture	Periodica Polytechnica Electrical Engineering and Computer Science	63	244–253	2019	
Bhukya Krishna Priya, Sampath Kumar, B Shameedha Begum, N Ramasubramanian	Cache lifetime enhancement technique using hybrid cache-replacement-policy	Microelectronics Reliability	97	1-15	2019	
B. Shameedha Begum, N. Ramasubramanian	Design of an Intelligent Data Cache with Replacement policy	IJERTCS	10	87-107	2019	
Satyanarayana Vollala, B Shameedha Begum, Amit D Joshi, N Ramasubramanian	Bit Forwarding 3-Bits Technique for Efficient Modular Exponentiation	IJISP	11	11-24	2017	
Shameedha Begum, T Vidya, Amit D. Joshi, and N Ramasubramanian	A Reconfigurable Cache Design for Embedded Dynamic Data cache	IJCTA	9	8509-8517	2016	
Babysyla, Satheesh Kumar and Shameedha Begum	Defending against malwares: Sandbox Detection and Prevention of Malwares in Android Devices	JCSEITR	5	7-20	2015	

(B) Conferences/Workshops/Symposia Proceedings

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Author(s)	Title of Abstract/ Paper	Title of the Proceedi ngs	Page number s	Conference Theme	Venue	Year
AnupDas, Bhukya Krishna Priya, B. Shameedha Begum,N.Ram asubramanian	Studies On Performance Of ImageSplicing Techniques Using Learned Self- Consistency	Springer	255– 264	International conference on Computing in Engineering & Technology	Online	2021
Krishna Priya, Sampath Kumar, N. Ramasubrama nian, B. Shameedha Begum	Enhancing the Lifetime of STT- RAM with MRU Replacement Algorithm	IEEE	1-6	International Conference on Recent Advances in Information Technology(R AIT)	Dhanba d	2018
Amit D. Joshi, Indrajeet S, N. Ramasubrama nian, B. Shameedha Begum	Analyzing Multi- core Cache Coherence Protocols from Energy and Performance Perspective	IEEE	381 - 388	International Conference on Recent Innovation in Signal processing and Embedded System	Bhopal	2017
Satyanarayana Vollala, Indrajeet S, B. Shameedha Begum, and N. Ramasubrama nian	Evaluation of Password Encrypted Key Exchange authentication Techniques: Design approach perspective	IEEE	1-9	International Conference on Internet of things and Machine Learning	UK	2017
Satyanarayana Vollala, Shameedha Begum, Amit D. Joshi and N. Ramasubrama nian	High-Radix Modular Exponentiation for Hardware Implementation of Public-Key Cryptography	IEEE	346- 350	International Conference on Computing, Analytics and Security Trends	Pune	2016
B. Shameedha Begum;Arun Krishnakumar; Amit D.	Design of a Reconfigurable Embedded Data Cache	IEEE	318- 322	International Conference on Computing, Analytics and	Pune	2016

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Joshi;N. Ramasubrama nian				Security Trends		
Joshi, A. D., Vollala Satyanarayana , Begum, B. S., & Ramasubrama nian N	Performance Analysis of Cache Coherence Protocols for Multi-core Architectures: A System Attribute Perspective	ACM	1-7	International Conference on Advances in Information Communicatio n Technology & Computing	Bikanir	2016
Satyanarayana Vollala, B. Shameedha Begum, and N. Ramasubrama nian	Hardware design for multiplicative modular inverse based on table look up technique	IEEE	520- 523	International Conference on Computing and Network Communicatio ns	Trivand rum	2015
Begum, B. Shameedha, and N. Ramasubrama nian	A comparative study of cache performance for embedded applications	IEEE	872- 876	International Conference on Computing and Network Communicatio ns	Trivand rum	2015

(C) Books Chapters

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Bhukya Krishna Priya, Anup Das, Shameedha Begum & N. Ramasubramanian	Applied Information Processing Systems	SPRINGER	2021	978-981- 16-2007-2
Ruchika Janbandhu, Shameedha Begum & N. Ramasubramanian	Computing in Engineering and Technology	SPRINGER	2019	978-981- 32-9514-8
Satyanarayana Vollala, N. Ramasubramanian, B. Shameedha Begum & Amit D. Joshi	Recent Findings in Intelligent Computing Techniques	SPRINGER	2018	978-981- 10-8638-0