

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

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**Curriculum Vitae**

1. Name: **B.REBEKKA**
2. Designation: Assistant Professor
3. Office Address: Department of ECE
4. Telephone (Direct) (Optional):0431-2503316  
Telephone : \_\_\_\_\_ Extn (Optional): \_\_\_\_\_  
Mobile (Optional): \_\_\_\_\_
5. Email (Primary):**rebekka@nitt.edu** Email (Secondary)  
:b.rebekka@gmail.com
6. Field(s) of Specialization:  
Wireless communication and networks

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Tiruchirappalli	01.05.2006	Till date
Lecturer	Karunya Institute of Technology, Coimbatore.	10.06.2005	12.04.2006

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	National Institute of Technology, Tiruchirappalli	17.03.2017		Investigations on Radio Resource allocation schemes for LTE network
M.Tech.	SASTRA University	2005	First class	Electronics and Communication Engineering
B.E	Bharathiar University	2003	First class with Distinction	Advanced Communication Systems

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12 <sup>th</sup>	Sri Vijay Vidhyalaya Girls Matriculation Higher Secondary school, Dharmapuri	1999	87.50	
10 <sup>th</sup>	Avvaiyar Government Girls Higher Secondary School, Dharmapuri	1997	91.60	

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Faculty Advisor	ECE Association	February 2014	June 2018
Committee member	PG (Communication systems) Project evaluation committee	May 2016	Till date
Committee member	BOS department level UG committee member	May 2017	Till date
Committee member	Department level convocation work	June 2014	Till date
Committee member	Institute day Institutional level committee member (Stage and Hall arrangements)	2008	2012
Committee member	Physical stock verification	2016	
Lab In charge	Digital laboratory	July 2012	May 2015
Class coordinator	ECE VII semester	July 2012	Till date
Class coordinator	ECE V-Semester	July 2017	Till date

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Doctoral Committee member	Karunya University, Coimbatore	July 2108	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

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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

1. Involved in procuring equipments for developing Electronic circuits laboratory
2. Involved in revising the syllabus for Networks and Protocols Course
3. Involved in revising the syllabus for Communication switching systems course

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

##### Under Graduate and Post Graduate levels:

1. Networks and Protocols
2. Wireless Communication
3. Principles of Communication Engineering.
4. Analog Communication
5. Communication Switching Systems
6. Branch Specific Course (ECE)
7. Energy and Environmental Engineering
8. Designing with ASICs
9. Electronic Circuits laboratory
10. Microwave Laboratory
11. Devices and Networks Lab
12. Microprocessors and Microcontrollers lab

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

Year	Number of students Guided
2006-2018	M.Tech – 30

#### (iv) Other contribution(s)

Guided around 20 Undergraduate level projects.

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration	Status

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		From	To	Ongoing/ Completed
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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
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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
4 <sup>th</sup> -14 <sup>th</sup> June 2013	2 weeks ISTE workshop on Analog Electronics organized by		Participant	IIT Kharagpur	
2 <sup>nd</sup> -12 <sup>th</sup> January 2014	ISTE workshop on Signals and Systems		Participant	IIT Kharagpur	
From 28 <sup>th</sup> May 2014 (2 Weeks)	ISTE workshop on Computer Networking		Participant	IIT Bombay	
15 <sup>th</sup> -27 <sup>th</sup> June 2009	Engineering practices on Fuzzy logic, Neural networks and Hybrid Intelligent systems		Participant	NIT, Trichy	
21 <sup>st</sup> -27 <sup>th</sup> September 2008	Instructional design and Delivery system		Participant	NITTTR, Chennai	
4 <sup>th</sup> -15 <sup>th</sup> December 2006	Instruction Enhancement Programme on Modeling and Simulation		Participant	IISc, Bangalore	

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

Title of Activity (Short Term Course)	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Analog and Digital Communication Techniques	National	08.11.2017-12.11.2017-	Coordinator	NIT, Trichy
Evolution of Mobile Communication	National	15.11.2017-19.11.2017	Coordinator	NIT, Trichy
Computer Networks and Protocols	National	04.12.2017-08.12.2017	Coordinator	NIT, Trichy

### 18. Invited Talks delivered

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

### 20. Academic Foreign Visits

Country	Duration of Visit	Programme
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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
B.Rebekka, S.Sudheep, B.Malarkodi	Priority-based quality of service guaranteed radio resource allocation in long term evolution network	Int. J. Information and Communication Technology, Inderscience publishers	9		2016	
B. Rebekka and B. Malarkodi	Multiple Input Multiple Output detection using roulette wheel based ant colony optimization technique	International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, WASET	10		2016	
B.Rebekka, S.Sudheep, B.Malarkodi	An Optimal and Priority Based Rate Guaranteed Radio Resource Allocation Scheme for LTE Downlink	Wireless Personal Communication, Springer	83		2015	
N.Gunavathi, B.Rebekka, D. Sriram Kumar	CPW – fed 5GHZ WLAN Band Notched UWB Antenna	International Journal of Image Processing and Network Techniques	4		2011	

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

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page nos.	Conference Theme	Venue	Year
Rebekka B, Vinay Kumar B, Malarkodi B	Radio Resource Allocation with Energy efficiency- Throughput Balancing for LTE Downlink	IEEE		International conference on Electronics and Communication Systems	Coimbatore	2015
Sudheep. S. Rebekka. B	Proportional Equal Throughput Scheduler- A Very Fair Scheduling approach in LTE Downlink	IEEE		International Conference on Information Communication and Embedded Systems	Chennai	2014
Rebekka. B, B.Malarkodi	Performance Evaluation of Resource Allocation Schemes in LTE Downlink	IEEE		International conference on Electronics and Communication System	Coimbatore	2014
Gaurav Verma, B.Rebekka, N.Gunavathi	Design of New spreading Sequences based on MC CDMA for WIMAX			International Conference on Science, Engineering and Management	Perambalur	2013
N. Gunavathi, B. Rebekka, R. Pandeewari, S. Raghavan	A Compact CPW- fed Band Notched UWB antenna			International Conference on Microwaves, Antenna, Propagation and Remote Sensing	Jodhpur	2009

**(C) Books & Monographs**

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Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
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I, **B. Rebekka** is currently working as Assistant Professor in the Department of ECE at National Institute of Technology, Tiruchirappalli, Tamilnadu, India. I Obtained Ph.D. degree from National Institute of Technology, Tiruchirappalli in the year 2017 March in the area of Wireless Communication. I obtained the M.Tech. degree in Advanced Communication Systems from SASTRA Deemed University, Thanjavur, Tamilnadu, India in the year 2005 and B.E. degree in Electronics and Communication Engineering from Bharathiar University, Coimbatore, Tamilnadu, India in the year 2003. My research interests include Quality of Service scheduling in wireless networks and Energy efficient communication.