

National Institute of Technology, Tiruchirappalli

Performa for CV of Faculty _ B. Janet

Curriculum Vitae

Dr. (Mrs.) B. Janet

Assistant Professor
Department of Computer Applications,
National Institute of Technology,
Tiruchirappalli, Tamil Nadu, India



Brief Profile

Dr. (Mrs.) B. Janet obtained her Undergraduate degree in B.Sc. (Physics) with Distinction from Holy Cross College, Trichy in 1999 from the Bharathidasan University, Tiruchirappalli and Postgraduate degree in Master of Computer Applications in 2002 from Bishop Heber College, with a university third rank from Bharathidasan University, Tiruchirappalli. She passed the National Eligibility Test for Lectureship (NET) of UGC in December 2001.

She started her research in Information Retrieval with a Master of Philosophy in Computer Science from Alagappa University, Karaikudi in 2005. She was awarded Ph. D. degree in 2012 by the National Institute of Technology, Tiruchirappalli.

Since 2002, she has been a professional Facilitator of Students. Presently, she is an Assistant Professor in the Department of Computer Applications, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India. She has 14 years of teaching experience which includes experiments on activity based learning, Learner centric teaching and flipped classrooms. She has 9 years of research experience with more than 10 research papers to her credit. Her research interests include Information Retrieval and Information Security.

She has visited Malaysia to present one of her research papers in a conference. She is also a reviewer for International Conference Papers. She is presently the Life member of Computer Society of India, International Association of Engineers, ISTE, ISC and International Association of Computer Science and Information Technology. She is also an active member of IEEE and ACM.

- 1. Name:** B. Janet
- 2. Designation:** Assistant Professor
- 3. Office Address:** LYCEUM 108,
Department of Computer Applications, NIT,
Trichy - 620015
- 4. Telephone (Office):** 0431 2503741
Mobile (Optional): 9442648096
- 5. Email (Primary):** janet@nitt.edu
- 6. Field of Specialization:** Information Retrieval and Information Security

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7. Employment Profile

Job Title	Employer	From	To
Assistant Professor (PB3 - 7000)	National Institute of Technology, Trichy.	21.04.2011	Till date
Assistant Professor (PB3 - 6000)	National Institute of Technology, Trichy.	21.04.2006	20.04.2011
Lecturer(UGC-FIP Leave Vacancy)	Bishop Heber College, Trichy.	11.02.2005	20.04.2006
Lecturer (Self-Financing Section)	Bishop Heber College, Trichy	24.07.2002	10.02.2005

8. Academic Qualifications

- **Passed the National Eligibility Test for Lectureship (NET) of UGC in December 2001.**

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D.	National Institute of Technology, Trichy	2007 - 2012	First class with Distinction	Information Retrieval
M. Phil.	Alagappa University, Karaikudi	2003 - 2005	I Class	Computer Science
MCA	Bishop Heber College, Trichy (Bharathidasan University)	1999 - 2002	III Rank 82.4	Computer Applications
B. Sc.	Holy Cross College, Trichy (Bharathidasan University)	1996 - 1999	First class with Distinction 92.45	Physics
Higher Secondary	Holy Cross Girls Higher Secondary School, Trichy	1996	86.75	Biology & Maths
High School	Holy Cross Girls Higher Secondary School, Trichy	1994	93.6	SSLC

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9. Academic/Administrative Responsibilities within the Institute

Position	Department/Institution	From	To
Member	NITT Community Radio Station	2016	till date
Member	Hospital Committee	2012	2015
Stock Verification Officer	Stock Verification Officer for Hostels	2009	2012
Stock Verification Officer	Stock Verification Officer for Mechanical Department	2012	2013
Member	MIS Committee	2012	2014
Faculty Advisor	Open Source Club	2012	till date
Faculty Advisor	Adaventure, Pragyan	2012	till date
Faculty Advisor	NITTFEST	2012	2014
Member	M. Tech. Syllabus Committee	2012	till date
Member	NBA Document Committee	2009	-
Member	Ph. D Admission Committee	2006	2014
Member	NIMCET Admission Committee	2006	till date
Member	M. Sc. (OR & CA) Admission Committee	2006	till date
Member	Board of Studies for MCA and M.Sc. (OR & CA)	2006	till date
Chairman and Member	Performance Analysis Committee	2006	-
In-charge	Department Library	2006	2007

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13. Details of Academic and Institute Works

Software Development

- Electrical complaint registration software developed for Estate maintenance department. (<http://emc.nitt.edu/login.php>)
- Software for data entry and analysis of transportation engineering problem survey for Civil Department.

Curriculum Development

- Subjects handled with available feedback scores
 - Computer Organisation and Architecture 9.15
 - Organisational Behaviour 9.2
 - CASE Tools Lab 8.7
- Updated the syllabus each year to include the latest research and Technology.
- Used Simulators and Power point presentations and Demonstrations of concepts by using open source software and videos, Mini Projects and exercises for course reinforcement.
- Moodle e-learning System used for course teaching, learning and evaluation.
- Used Flipped classroom methodology for CA715 MCA course. (<http://egov.nitt.edu/moodle/course/view.php?id=26>)

Laboratory Development

- Established an Information Processing Lab in Computer Applications Department.
- Developed lab exercise for Information security lab and CASE Tools lab introduced for the first time. Used IBM great mind challenge problems for case tools lab and Google Code Lab exercise for Information security lab.
- Used Open source simulators for learning about information security in the Lab.
- Initiated the Purchase process for Plan Fund sanction for an amount of Rs.46,00,000/- which was utilized to buy 60 Computers, 2 Projectors and 2 work stations under plan fund Phase I.
- Initiated the Purchase process for Plan Fund sanction for an amount of Rs.15,00,000/- which was utilized to buy Computers, Visual sensor Network lab equipment and UPS under plan fund Phase II.

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(i) Courses taught at Postgraduate and Undergraduate levels

Undergraduate:

- C Programming

Postgraduate:

- Computer Organisation and Architecture
- Information Security
- Operating Systems
- Organisational Behaviour

Laboratory:

- FOSS Lab
- Information Security Lab
- CASE Tools Lab
- Visual Programming Lab
- Graphics and Multimedia Lab

(ii) Sample Project Titles guided at Postgraduate level

Project Title	Name	Year of submission	Course
Vector quantization on audio data	V.G.Rajapandiyan	May 2011	Mca
Specialized HTML Parser	S.MohanaPriya	May 2011	Mca
Implementation of web enabled, Netbanking with mailing facilities and anti-phishing features	R.Rajkumar	May 2011	Mca
Image processing-Histogram analysis	N.Nithya	May 2010	Mca
Graphical visualization of web history using elliptical and path based approach	M.Senthil Kumar	May 2011	Mca
NITT Offline Navigator	Jaideep singh Parmar	June 2016	Mca
Information and learning Management System	Sangeet kumar	June 2016	Mca
Steganography	Ravi beck	Nov 2016	Mca
Payroll management system	Aishwarya Vani	Nov 2016	Mca
Examples of OOP Concepts	Sonam Soni	Nov 2016	Mca
Calender	Akanksha Dixit	Nov 2016	Mca
Advance Parking System	Mayank shah	Nov 2016	Mca
LRU cache Implementation	Mohit kumar vats	Nov 2016	Mca
Code Runner	Hamendra Bairwa	Nov 2016	Mca

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Consultancy:

Sl. No	Name of Organization	Year	Amount (Rs.)
1.	BHEL	2013	10,891/-

15. Ph. Ds guiding:

Name of the PhD Scholar	Type	Area of Research	Role(Supervisor/ Co-Supervisor)	Year of Joining
R. Roslin Mary	Part Time	CAD for Aneurysm	Supervisor	2012
K. Nirmal	External	Phishing	Supervisor	2012
N. Karthika	Full Time (Diety)	Indexing	Supervisor	2015
N. Muralidaran	Part Time	Network Security	Supervisor	2015
Shantha Devi	Full Time	Information Security	Supervisor	2016

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
05.08.2016	Orientation course of I year B. Tech	Local	Speaker	NIT, Trichy	NIT, Trichy
13-15 June 2014	International Mechanical Engineering Congress	International	Organizing committee member	NIT, Trichy	NIT, Trichy
August 30 and 31, 2014	Version, (Two day National MCA Symposium) paper presentation	National	Judge	Department of CA	NIT, Trichy
March 17 and 18, 2013	Infotreck 2012, UI Design, Annual ACM Student chapter	Local	Judge	Department of CA	NIT, Trichy
8 th March, 2013	Women's day celebrations of Sadhana of Bishop Heber College	Local	Chief Guest address	Bishop Heber College	BHC

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9 th and 10 th of May 2013	two day workshop on Perspectives on Curriculum	Local	Participant	NITT	NITT
05.08.2013	Programming principles	Local	Lecture	NIT Trichy	NIT Trichy
13 and 14 th December 2012	Paper Presentation Session of INCOSSET 2012	Local	Session Chair	JJCET, Trichy	JJCET, Trichy
December. 6 th and 7 th 2012	FACT 2012	National	Technical committee member	Department of Mathematics and CA	NITT
10 th and 11 th November, 2012	Two day ISTE workshop on Akash for education conducted by IIT, Bombay	National	Participant	IIT Bombay	NITT
13.03.2010	Paper Presentation event, Infotreck 2010, Annual ACM Student chapter	Local	Judge	Department of CA	NIT, Trichy
13.03.2010	Paper Presentation event Infotreck 2010 Annual ACM Student chapter intra collegiate technical event	Local	Judge	Department of CA	NIT, Trichy
Feb. 25,26, 2010	National conference on Advanced pattern mining and Multimedia Computing	National	Organizing committee Member	Department of CA	NIT, Trichy
26.03.10 to 27.03.10	BAIP 2010	International	Session Chair	Trivandrum	Trivandrum
August 28 and 29, 2010	Version (Two day National MCA Symposium) paper presentation	Local	Judge	Department of CA	NIT, Trichy
14th to 15th March, 2008	2 day workshop on Data Analytics and Data Mining	National	Participant	Department of Maths and Department of CA	NIT, Trichy
6th and 7th October 2008	3 day Training Programme on Thesis Preparation using LaTeX Software	Local	Participant	Department of CSE	NIT, Trichy
7th, 8th and 9th November, 2008	3 day workshop on Digital Image and Video Processing	National	Participant	Department of Maths and Department of CA	NIT, Trichy

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8,9,10 th August 2008	3 day workshop on Algorithms	National	Participant	Departme nt of Maths and Departme nt of CA	NIT, Trichy
14th August, 2008	Workshop on Mobile and Pervasive Computing	National	Participant	Departme nt of CA	NIT, Trichy
13th to 17th March, 2007	Short term course under QIP for Engineering College Teachers on Recent trends in Processor Architecture	Local	Participant	Departme nt of CSE	NIT Trichy
December 22nd, 2006	Seminar on Research Directions in Information Technology and Applications	National	Participant	Departme nt of Managem ent Studies	NIT Trichy
9th to 11 March, 2006	TANSCHÉ and UGC Sponsored 3 day Workshop on Curriculum development and Evaluation	Regional	Participant	Academic Staff College, Bharathida san University	BHC, Trichy
27.06.2003 to 29.06.2003	Workshop on Christian Studies Sponsored by AIACHE	Local	Participant	BHC, Trichy	BHC, Trichy

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Internet Protocol standards by CDAC	Regional	29.07.2016	Coordinator	NIT, Trichy
Application of ICT Tools for Pedagogy development to technical education Teachers	National	4 th to 8 th April 2016	Coordinator	NIT, Trichy
Leadership Training	Local	11.03.2016	Coordinator	NIT, Trichy
Visual Sensor Networks	National	November 2015	Coordinator	NIT, Trichy
Tools and Techniques for Information Processing Research	Local	11 th and 12 th September 2015	Coordinator	NIT, Trichy
IBM Cloud workshop	Local	9.11.2013	Coordinator	NIT, Trichy

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18. Invited Talks delivered

Topic	Date	Inviting Organization
Indexing Textual Data	25.05.2009 to 6.06.2009	FDP on “Data Warehousing and Data Mining conducted by the Department of Computer Applications, NIT, Trichy -15
Motivation for Fresher’s	July 9, 2010	Bishop Heber College
C Programming	22.08.13	Orientation Programme of Bridge Course, NIT, Trichy
Motivation to Fresher’s	7.8.2016	NIT, Trichy
Academic Ethics	07.08.2014 (every year)	NIT, Trichy
Lectures on Programming Languages	7.12.12 and 11.12.12	Finishing school students in the UKIERI Projects on Preparing Graduates for Business Life, in NIT, Trichy

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISC	L24000
Member	IEEE	91092990
Professional Member	ACM	7800754
Life Member	CSI	01153035
Life Member	ISTE	LM95869
Life Member	IAENG	109374
Life Member	IACSIT	80337721
Member	IBM Academic Initiative	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Malaysia	05.12.2010 to 07.12.2010	Paper presentation for Conference

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21. **Publications**

(A) **Journals:**

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Janet B. and A.V. Reddy	Index Model for Image Retrieval using SIFT Distortion	Intelligent Information and Database Systems	6 (3)	289-306	2012	(IF - 3) (SCOPUS)
Janet B., A.V. Reddy and S. Domnic	Locally Global Codebook for Image Retrieval and Clustering using Vector Quantization	ICTACT Journal On Image And Video Processing	2 (4)	397-404	2012	ICV - 5.09
Janet B. and A.V. Reddy	Cube Index: A Text Index Model for Retrieval and Mining	IJCA	9 (20)	192-330	2010	http://www.ijca.org/archives/number9/
Janet B. and A.V. Reddy	Wordpair Index: A Nextword Index Structure for Phrase Retrieval	<i>Special Issue of IJRTE</i>	3 (2)	147-149	2010	URI: http://www.searcdl.org/index.php/journalclient/viewthispaper/6/6/15/131
Janet B. and A.V. Reddy	Cube Index for Text and Image Information Retrieval and Mining	Advances in Computing	1(1)	1-7	2011	DOI: 10.5923/j.ac.20110101.01
Janet B. and A.V. Reddy	A Study on the Effect of Codebook and Codevector Size on Image Retrieval Using Vector Quantization	Computer Science and Engineering	1(1)	1-7	2011	DOI: 10.5923/j.computer.20110101.01

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page num bers	Venue	Year
T Ravi Chandran, AV Reddy, B Janet	A social spider optimization approach for clustering text documents	Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (IEEE explore)	22- 26	Chennai , India	2016
K Nirmal, B Janet, R Kumar	Phishing-the threat that still exists	Computing and Communications Technologies (ICCT) (IEEE explore)	139- 143	Chennai , India	2015
B. Janet, R. Roslin Mary	Proposal of a new Patient specific Open CAD Architecture for Thoracic Aortic Aneurysm (TAA)	Emerging Research In Computing, Information, Communication And Applications (Elsevier)	243- 248	Bangalore, India	2014
B. Janet, R. Roslin Mary	A Computer Aided Diagnosis System For Thoracic Aortic Anurysm	Eighth International Conference On Image And Signal Processing (Elsevier)	331- 336	Bangalore, India	2014
Janet B., Reddy A.V	Cube Index for Unstructured Text Analysis and Mining	<i>Proceedings of ICCCS(IEEE Explore)</i>	397- 402	Odisha, India	2011
Janet B., Reddy A.V., Domnic S.,	An Image Index Model for Retrieval	<i>Proceedings of BAIP (Springer LNCS)</i>	465- 467	Trivandrum, India	2010
Janet B., Reddy A.V., Domnic S	Vector Quantization Based Index Cube Model for Image Retrieval	<i>Proc. of Fourth Pacific- Rim Symposium on Image and Video Technology (IEEE explore)</i>	27- 32	Singapore,	2010
Janet B., Reddy A.V.,	Image Index Model for Retrieval using Hadusdorff Distance	<i>Proceedings of Int. Conf. on Computer Applications and Industrial Electronics (ICCAIE) (ACM Digital library)</i>	85- 89	Kuala Lumpur, Malaysia,	2010

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Janet B., Reddy A.V., Domnic S	Incremental Codebook Generation for Vector Quantization in Large Scale Content Based Image Retrieval	<i>Proceedings of IEEE Int. Conf. CISR (IEEE explore)</i>	223- 226	Coimbatore, India	2010
B. Janet, R. Dhanapal	Data Mining by Phrase Clustering of Documents	UGC Sponsored National Conference on Computer Science and Informatics	-	St. Josephs College, Tiruchirapp alli	2005
B. Janet	Knowledge Management in WWW	National Level seminar on Emerging Trends in Communication and Networking	-	St. Josephs College of Arts and Science. Cuddalore	2005
B. Janet	The Issues of Biometrics and its impact	National Symposium on Recent trends in Biotechnology	-	Bishop Heber College, Tiruchirapp alli	2005
B. Janet, R. Dhanapal	Intelligent Information Retrieval Agent	UGC Sponsored National Conference on Networking and Multi- agent Systems	-	Gobi Arts and Science College, Gobichettip alayam	2004
B. Janet, R. Dhanapal	Quality Enhancement of Library Utilization using Data Mining Techniques	National Conference on Library Resource Management in Digital Era	-	Bishop Heber College, Tiruchirapp alli	2004
B. Janet, R. Dhanapal	Utilization of Data Mining Techniques for Intelligent Usage of Data in the Cyber World	UGC Sponsored Seminar on "Cyber Impact on Society	-	Seethalaksh mi Ramaswami College, Trichy	2004