

RESUME

Dr. SOBHANA N V

Professor in Computer Science and Engineering

Rajiv Gandhi Institute of Tehnology, Government Engg College

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General Information:

Address for Communication : Chirayil (H)
Muttambalam P O
Kanjikuzhy
Kottayam 686004
9496123130

Age and Date of Birth : 44 years, 28-05-1973

Highest qualification with institution : PhD, IIT Kharagpur

Areas of Expertise : Data Mining, Information Retrieval, Natural
.Language Processing, Cyber Security

Awards :1. VIWA award(Venus Inernational Foundation)
2. NFED award (National Foundation for
Entrepreneurship Development) (Nominated)

Educational Qualifications

	Subject	Institution/University	Month & Year of Passing	Class
Ph.D	Computer Science and Engineering	IIT Kharagpur	2011	
M.Tech	Computer Science and Engineering	Cochin University of Science and Technology	2004	First Class with Distinction
B.Tech	Computer Science and Engineering	M A College of Engineering Kothamangalam	I994	First Class

Experience

Institution	Post	From	To
Directorate of Technical Education	Professor Associate Professor Asst Professor	18.8.2000	Till now
University College of Engineering	Asst Professor	July 1999	Aug 2000
IHRDE, College of Engg Chengannur	Asst Professor	Aug 1996	July 1999
Keltron Controls Aroor	Trainee	Jan 1995	Aug 1996

Total teaching experience: 21 years 4 months

Industrial Experience: 8 months

Research experience: 7 years

Teaching and Supervision

Name of the Course	Semester	B. Tech/ M. Tech
High Performance Computing	VIII	B.Tech
Data Mining and Data Warehousing	VII	B.Tech
Project	VII	B.Tech
Seminar	VII	B.Tech
Software Engineering	VI	B.Tech
Project	VIII	B.Tech
Object Oriented Modeling and Design	VII	B.Tech
Information Retrieval, Data Mining and Data Warehousing	I	M.Tech
Social Network Analytics	II	M.Tech
Big Data Analytics	III	M.Tech

High Performance Computing	VII	B.Tech
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Organized expert lectures for students under Visiting Faculty Scheme

Current Responsibilities

Department Level	
	Member TEQIP research committee Guided seminars and funded main projects Class committee Member Participated in MODROBS (Modernisation of lab for teaching and research) Accreditation related activities As a co-ordinator co-ordinated all AICTE related activities in college level Member CERD Committee
College Level	
	Research Coordinator Camp Officer KTU Chairman Exam Monitoring Cell KTU Academic Auditor KTU

Professional Competence

a. Major Research Publications

International Journals	: 9
Book Chapter	: 2, Springer
International Conferences	: 18
National Conferences	: 3
Magazine Article	:3
Book	: 1(submitted)

b. Professional Activities

Invited Lectures / Chairing / Resource Person / Keynote Address

1. Advisory committee member ICEE-13, RIT Kottayam
2. Program committee member NATCCOM-14, IEEE ICAECC-14, WiMoN 2014 (Sixth International Conference on Wireless and Mobile Networks) Springer, Second International Conference on Soft Computing (SCOM 2014)
3. Reviewer IEEE ICAECC-14, ICRIIT-11 RIT Kottayam, CISP-13 GEC Wayanad, International Conference on Computational Intelligence and Networks, KIIT University, Bhubaneswar, IEEE Computer Society (CPS), ICANI (Springer) 2015
4. Research Advisor at GEC Painavu
5. Evaluator of paper presentation contest in GEC Painavu
6. Participated in IEEE Students Symposium at IIT Kharagpur
7. Approved Research Guide at MGU
8. Evaluated research papers at Kerala Science Congress on 23/12/14
9. Academic Auditor KTU
10. Chaired Conference on Christ Knowledge City on 5/3/16
11. Technical Expert Committee Member of inspection team of installation of CCTV Camera system in Taluk Head Quarters Hospital, Pampady 16/3/16
12. Subject expert Staff Selection Committee at MA College of Engg April 16(7/4/16)
13. Technical Programme committee member IEEE International Conference on Engineering, Management and Application at Pune, India from 10-12 February 2017 organised by **IEEE Pune Section**, IEEE Computer Society Pune Chapter, IEEE PES/IAS Pune Chapter, IEEE Signal Processing Society Pune Chapter,

14. Reviewer, International Conference on Data Science and Engineering 2016, CUSAT
15. Subject expert Staff Selection Committee at N S S College of Engg Palakkad April 16
16. Evaluator in the panel of examiners PhD viva voce M G University, Anna University
17. **Reviewer International Journal of Data Science, Inderscience Publishers**
18. Editorial Board Member Journal of Control Science and Engineering (ISSN 2328-2231), an international, professional and peer reviewed journal
DOI: 10.17265/2328-2231 ISSN: 2328-2231
19. Editorial Board member IJRI Journal International Journal of Research and Innovation
20. Advisory board member International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE)
21. Reviewer for International conference on Advancement of Computer Communication and Electrical Technology Taylor & Francis group, June 2016
22. Reviewer International Conference on Advancement of Computer Communication and Electrical Technology. proceedings will be published online by CRC Press/Balkema, a Taylor & Francis Group and Indexing in SCOPUS, EI, Thomson & Reuters web of science. Selected paper will be called for extended submission in IFSA Sensor & Transducer Journal.
23. Reviewer International Conference on Informatics and Analytics, ICIA-16 SCIE, ESCI, Scopus, ACM dl, DBLP indexed journals namely Computers and Electrical Engineering (Elsevier), International Journal of Ambient Computing and Intelligence (IGI Global), International Journal of Image Mining (Inderscience)
24. Reviewer IASIR- International Association of Scientific Innovation and Research

c) Membership in Professional Bodies

ISTE ,IE(Institution of Engineers),,IEEE(2010), ISRD(International Society for Research and Development), IAENG(International Association of Engineers), The International Journals of Multidisciplinary Research Academy (IJMRA)

Board member IASIR-International Association of Scientific Innovation and Research

d) Short Term Training Program attended

Sl.No	Topic	Venue	Date	Duration
1	International Conference on Data Science and Engineering	CUSAT	18/7/12- 20/7/12	2days
2	INDICON 2012 IEEE conference	CUSAT	7/12/12-8/12/12	3days
3	Second National Conference of Indian language computing	CUSAT	18/2/13-19/2/13	2days
4	Advanced Data Base Management Systems	IIT Bombay	25/6/12- 4/7/12	2Weeks
5	Statistical Modeling for Data Analysis	IIT Kharagpur	10/12/12- 15/12/12	6days
6	Third National Conference of Indian language computing	CUSAT	19/1/13- 20/1/13	2 days
7	Computational tools for Engineering applications	GEC Painavu	17/12/12- 21/12/12	5 days
8	English Proficiency through Language Lab	GEC Painavu	9/7/12 to 14/7/12	6 days
9	Data Mining and Image Analytics	IIT Kharagpur	8/4/13 to 12/4/13	5days
10	System Administration and Shell Scripting in Linux	RIT, Pampady	17/6/13 to 21/6/13	5days
11	Predictive Analytics	IIT Hyderabad	17/7/13 to 21/7/13	5days
12	Pattern Recognition	RIT Pampady	24/6/13 to 28/6/13	5days
13	Network Security	ESCI Hyderabad	Nov 2013	5days
14	Software development Techniques	IIT Bombay	Nov 2011	2weeks
15	Cryptography and Network Security	IIT Kharagpur	19/5/14 to 24/5/14	6 days
		IIT Kanpur		
16	Academic Leadership Programme	IIM Calicut	25/8/14 to 30/8/14	6days
17	Workshop on Bigdata Analytics	Indo – Czech Workshop St Gits	19/1/15	1day
18	IBM SEED Program	RIT Kottayam	12/11/14 to 15/11/14	4days

19	ISTE Annual Convention	CET	27/11/14	1day
20	ARM processors in Embedded systems	RIT Kottayam	19/11/13 to 23/11/13	5days
21	Pedagogy programme	IIT Madras	Jan 2016	3 days
22	Cost Effective Architecture	RIT Kottayam	Feb 2016	
23	Innovation and Patent filing	MG University	Feb 16	1 day
24	High Performance Computing	RIT Kottayam	March 16	5 days
25	High Performance Architecture	IIT Guwahatti	May 2016	5 days
	Webinar	Dellsoft	30/9/16	
	Workshop on AICTE approval process	CUSAT	5/2/16	
	Bigdata Analytics	NIT Calicut	March 17	6 days
	Research Colloquium on power and renewable energy	RIT	17/2/16	

e) Short Term Training Program Organized

Sl.No.	Title	Period	duration
1	Introduction to Computational Intelligence and Data Mining (DTE Course)	19/11/12 to 24/11/12	6days
2	Data Science and Engineering (DTE Course)	16/12/13 to 21/12/13	6 days
3	Modeling Object Oriented Systems Using Rational Tools	11/2/13 to 15/2/13	5 days
4	Hands on Training on IBM Software Architect	30/4/13 to 3/5/13	5 days
5	Cyber Security	7/3/13 to 11/3/13	5 days
6	Predictive Analytics	25/6/14 to 27/6/14	3 days
7	Web Semantics and Data Mining	24/9/13 to 28/9/13	5 Days
8	Digital Image Processing (DTE Course)	5/1/2015 to 10/1/2015	6 days
9	Computer Security(Technical Staff)	Jan 2016	5 days

f) Expert Lectures- delivered and organized

Invited Lectures / Chairing / Resource Person / Keynote Address

1. Chaired a technical session in the National Conference on Computing and Communication (NCCC 2014) at GEC Painavu, 26-28 March 2014
2. Delivered a plenary talk on Data Analytics in the National Conference on Computing and Communication (NCCC 2014) at GEC Painavu, 26-28 March 2014
3. Inaugurated the workshop on CASE Tools and delivered a lecture at Rajagiri School of Engineering and Technology, Kochi, Nov 2013
4. Engaged a session on “Text Mining approaches on document collections” in the DTE course Introduction to Computational Intelligence and Data Mining from 19/11/12 to 24/11/12
5. Engaged a session on “Object Oriented Modeling and Design” in the STTP Modeling Object Oriented Systems Using Rational Tools from 11/2/13 to 15/2/13
6. Engaged a session on Latex at RIT, Kottayam on 12/2/14 for faculty members including senior Professors
7. Inaugurated Computer Science Association of Ettumanoorappan college on 3/2/15
8. Presented paper on Text Analytics: A Review in ISTE convention December 2015
9. Chaired International Symposium at GEC Idukki 2016
10. Engaged a session on Classification in the STTP on Digital Image Processing December 2015
11. Expert lecture at College of Engineering Kuttanad, CUSAT on march 16
12. Chaired session on conference at Christ Knowledge City on march 16
13. Chaired conference RAEREST 16 Elsevier 22/4/16 to 23/4/16 at St Joseph’s College of Engineering Palai
14. Chaired conference ICNGIS 2016 IEEE 1/9/16 to 3/9/16 at RIT Kottayam
15. Chaired a session on KETCON 2017 Kerala Technological Congress, at MA College of Engineering on Jan 17

g) Seminars/Talk/Lectures organized

1. Organized a seminar on **Data Mining** by Dr Krishna Mohan, Professor, Department of Computer Science and Engg, IIT Hyderabad on 23/11/12

2 Support Vector Machines by Dr Nagaraja, Professor, Department of Computer Science and Engg IIT Bombay on 21/11/12

3 Natural Language Computing by Dr Sobha L, Scientist, Anna University on 19/11/12

4 Organized a seminar on **Geospatial cloud, issues and challenges** by Dr S K Ghosh, IIT Kharagpur on 19/12/12

5 Organized a talk on Ontology by **Dr Sreenivasakumar, Professor, IIT Madras**

6 Organized a lecture on Cloud Databases, by Dr S D Madhu Kumar, Associate Professor and Head, Department of Computer Science & Engineering, NIT Calicut

7 Simulating Network Security Attacks and Countermeasures in NS-2 by Mohit P. Tahiliani, Associate Professor, NIT Surathkal

8 Cloud Security by Dr Priya Chandran Professor, Department of Computer Science & Engineering, NIT Calicut

9 Neural Networks for Predictive Analytics and Support vector machines, Deep Learning for Predictive Analytics by Dr. S Sarkar , Professor, Dept of CSE, IIT Kharagpur on 27/6/14

10 NS2 by Dr Mohit P Tahiliani, NIT Surathkal on July 2015

h) PhD/M.Tech Thesis/Project Guidance

PhD :1

M.Tech : 5

B.Tech : 30

i) Awards/Grants received

- Guided projects and secured prize for students paper presentations in the years 2013& 2014 at National Symposium MG University
- Quality Improvement Program (QIP) scholarship for Doctoral Research at IIT Kharagpur by AICTE, New Delhi during the period 2007-2011
- Doing project funded by DIT, Govt. of India
- Principal Investigator of TEQIP II Research Seed Money project
- Completed project funded by Physically Challenged People funded by State Commmissionerate for Persons with Disabilities

Sl.No	Name of Project Guide and Designation	Title of the Research Proposal and Funding agency	The present status
1	Dr Sobhana N V	ShmStreaming: A Shared Memory Approach for Improving Hadoop Streaming Performance Student Project CERD	Completed
2	Dr Sobhana N V	Indoor Navigation System Student Project, CERD	Completed
3	Dr Sobhana N V	A Simple Wearable Hand Gesture Recognition Device using iMEMS Student Project,KSCSTE	Completed
4	Dr Sobhana N V	Secure Cloud Student Project, CERD	Completed
5	Dr Sobhana N V	Smart Parking Student Project, CERD	Completed
6	Dr Sobhana N V	Identity Based Security for Cloud Student Project, CERD	Completed
7	Dr Sobhana N V	Transportation System for Physically Challenged People State Commmissionerate for Persons with Disabilities	Ongoing
	Dr Sobhana N V	Text Analytics for Social Networks TEQIP Research Seed Money	Ongoing

Innovative schemes/ ventures/activities completed which are worth noting

Obtained Accreditation by NBA for CSE department during the tenure of headship from 2013-2015

Started PG programme Computer Science and System Engineering, GEC Idukki during the tenure of headship

Started PG programme Computer Science and Engineering RIT Kottayam during the tenure of headship

Completed a project Transportation System for Physically Challenged People funded by State Commissionerate for Persons with Disabilities

Guided SMART (Student Movement for Activating Regional Transformation) project funded by Confederation of Indian Industry

Guided projects and secured first prize for students paper presentations in the years 2013, 2014 consistently in the National Symposium at MG University,

Subject expert Staff Selection Committee Programmer tradesman, at MA College of Engg April 16

Conducted remedial class for the subject High Performance Computing

Conducted an FDP on Computer Security(Technical Staff) Jan 16

Consultancy work : Committee member of Detailed Project Reports (DPR) regarding KIIF Board proposals required for Govt. Engineering College, Polytechnic Colleges, Arts and Science colleges

Responsibilities in other committees

Convener M.Tech Syllabus revision committee

Chair Person (M.Tech) M.G University

Pass board member (M.Tech) M.G University

Expert committee member M.G University

Academic Auditor KTU

Chairman Exam Monitoring Cell KTU

Bounding Board member MG University

Examiner in the panel of examiners PhD viva voce M G University

Question paper setter in various universities

Advisory Committee member/ PC member of Conferences

Reviewer of conferences

Subject Expert Staff Selection Committee

Member of Inspection team at College of Engineering Thodupuzha

Judge for IT@School technical Competitions

Subject Expert for interview of teachers at Kendriya Vidyalaya Idukki

Assisted for conducting the online exams and training conducted by IT mission in CSE dept

Coordinator of various workshops, shortterm training programmes, conferences in the department

Participated in the centralized valuation camp of MG university, Cochin university, Kannur university

Conducted Thesis M.Tech Viva Voce

1) Responsibilities held in previous Institutions

Head of Department ((RIT 2004-2005), GEC IDUKKI(2012-2013)(RIT 2013-1015)

Member of College Council

Class Committee Member

Secretary, Antiragging Committee (GEC IDUKKI)

Chairperson of Grievance and Redress Cell (GEC IDUKKI)

TEQIP Monitoring and Evaluation Nodal officer (GEC IDUKKI)

Library Automation Coordinator and Digital Library(GEC IDUKKI)

IIC & CERD Member(GEC IDUKKI)

Coordinator of various workshops, short term training programmes, conferences in the department

Staff Advisor (RIT Kottayam)

Lab in Charge (RIT Kottayam)

Chair Person (B.Tech) (2003-2005)

Pass Board member (B.Tech) (2003-2005)

PTA Secretary(July 2013 to July 2014)

DR SOBHANA N V

