

## RESUME

### **Mr. Dilip T. Rathod**

Designation: Assistant Professor(Senior Scale) ,  
Approved Post Graduate Teacher, IT  
Dept. of Information Technology  
P. E. S. College of Engineering, Aurangabad



**E-mail id:** rathod.dt@gmail.com

#### **Personal:**

- Date of Birth: 11/10/1982
- Ph./Mob. No : 9158005304
- Languages known: English, Hindi, Marathi, Banjara.
- Nationality: Indian
- Marital Status: Married
- Blood Group: B +ve

#### **PROFESSIONAL MEMBERSHIP**

- Life membership of IETE
- Life membership of ISTE
- Member of Computer Society of India

### ACADEMIC ACHIEVEMENT

#### **Educational Qualification**

Examination	Board University	Passing Year	Division	Percentage
Ph.D.	S. R. T. University, Nanded.	2012		Appeared
ME(CSE)	Govt. College of Engg. Aurangabad	2009	Distinction	80.00 (CGPA:8.75)
BE(I T)	Dr.B.A.M.U, Aurangabad	2004	Distinction	67.53
HSC	State Board	2000	First Division	68.83
SSC	State Board	1998	First Division	68.00

#### **Working Experience (12 years 7 months )**

- 1) Working as Assistant Professor in Senior Scale in Dept. of Information Technology, since 1<sup>st</sup> July 2013, till date, at P. E. S. College of Engineering, Aurangabad (M. S.).
- 2) Worked as Assistant Professor in Dept. of Information Technology, since 1st January, 2009 to 30<sup>th</sup> June 2013, at P. E. S. College of Engg., Aurangabad.
- 3) Worked as Lecturer in Dept. of Information Technology, from 28<sup>th</sup> June, 2005 to 31<sup>st</sup> January 2010, at P. E. S. College of Engg., Aurangabad (M. S.).
- 4) Has been worked as Lecturer in Dept. of Information Technology, from 19th Jan, 2005 to 25th June 2005, at MSS's Matsyodhari College of Engineering and Technology, Jalana (M. S.).
- 5) Worked as Lecturer in Dept. of Information Technology, from 21st Sep, 2004 to 17th Jan, 2005 at Aditya Engineering College, Beed (M. S.).

## **Skills/Proficiencies**

- Semantic Web : RDF RDFS OWL, Ontology
- Programming Languages: C, C++, JAVA, COBOL
- Web Development: JEE6 (JSP, Servlet, AJAX), ASP, Google Web Toolkit.
- Databases: Oracle 9i, MySql.
- Web Design: HTML, VB Script, Java Script.
- UML, Design Patterns
- MATLAB 7.0 (Signal Processing and Image Processing Toolbox)
- Operating System:Linux (Redhat, Fedora,Ubuntu), Windows 98, Windows 2000
- Open Source : Apache, PHP, Apache Tomcat.
- Integrated Development Environment: Netbeans, eclipse,
- Application Software: Latex MsOffice 2003, Open Office.org
- Argo UML

## **Theory Subjects Taught Till Date:**

<b>Sr. No.</b>	<b>Name of the Subject</b>	<b>College/Institution</b>	<b>Class</b>
1	Cloud Computing	P.E.S. college of Engineering, Aurangabad	BE(IT)
2	Computer Networks-II	P.E.S. college of Engineering, Aurangabad	TE(IT)
3	Computer Networks-I	P.E.S. college of Engineering, Aurangabad	SE(IT)
4	Introduction to Mainframe Systems	P.E.S. college of Engineering, Aurangabad	BE(IT)
5	Web Information Systems(JEE 6)	P.E.S. college of Engineering, Aurangabad	BE(IT)
6	Object oriented analysis & Design	P.E.S. college of Engineering, Aurangabad	BE(IT)
7	Linux Operating System	P.E.S. college of Engineering, Aurangabad	BE(IT)
8	Open Source Software & Technology	P.E.S. college of Engineering, Aurangabad	SE(IT)
9	Computer Networks	P.E.S. college of Engineering, Aurangabad	TE(IT)
10	Programming in Java	P.E.S. college of Engineering, Aurangabad	TE(IT)
11	Digital Signal & Image Processing	P.E.S. college of Engineering, Aurangabad	TE(IT)
12	Discrete Mathematics and Structure	P.E.S. college of Engineering, Aurangabad	SE(IT)
13	Software Development Lab	P.E.S. college of Engineering,	SE(IT)

		Aurangabad	
14	Information Theory and Coding	P.E.S. college of Engineering, Aurangabad	TE(IT)
15	Data Communication	P.E.S. college of Engineering, Aurangabad	SE(IT)
16	Computer Fundamentals	P.E.S. college of Engineering, Aurangabad	FE
17	Object Oriented Programming with UML	MSS's College of Engineering & Technology, Jalana.	SE(CSE/IT)
18	Digital Signal & Image Processing	MSS's College of Engineering & Technology, Jalana.	TE(CSE/IT)
19	Distributed Operating Systems	Aditya Engineering College, Beed	BE(IT)
20	Data Structure and Algorithm	Aditya Engineering College, Beed	TE(CSE/IT)

Project(s) Done:

**1) Cryptography Using Neural Network**

Platform: Fedora 11, GCC

Location: Govt. Engineering College Aurangabad.

Period: 1 year

Neural cryptography is the first algorithm for key generation over public channels which are not based on number theory. It has several advantages over known protocols: It is fast and simple, for each messages a new key can be used and no information is stored permanently. Therefore neural cryptography may lead to novel applications in the future. They are also suited for devices, with limited resources; such as small micro-controller based systems

**2) Payment Gateway**

S/W: JSP, Servlet, HTML, Java Script, O/S: Windows 2000/XP,

Application Server: Apache Tomcat 4.0, Period: 1 Year

Location: PES College of Engineering, Aurangabad

**3) Library management**

Platform: VB 6.0, Oracle 8i. O/S: Windows 2000/XP

**4) Gaming using C graphics**

**Project(s) Guided:**

- Automated Grading System
- Vehicle Tracking Using GPS
- Virtual Classroom
- Home Automation System
- Blue Presenter System
- Website for Farmers
- Training & Placement Automation
- V-Connect
- Employee Time Sheet
- HR Management System
- Online Class Test
- HTTP Caching Proxy Server
- Online Transport Management
- Online Aptitude test
- Maintaining Employee Entry Record Using RFID

- Web Services
- Protocol Analyzer

- Flaw Detection
- Scholarship Automation
- N-Tier Architecture

**Seminar(s) Delivered:**

- 1) Undergraduate – Secure Socket Layer
- 2) Post Graduate – Business Intelligence

**Seminar(s) Guided:**

- 1) Wireless Network Security
- 2) Packet Sniffer
- 3) Virtual LAN Technology
- 4) Holography
- 5) IP Spoofing
- 6) IQ Test
- 7) Unicode

**Academic Work:**

- Prepared Lab Manuals for following subjects at P. E. S. College Engineering, Aurangabad.

Subject	Class	Year
Information Theory & Coding	TE(IT)	2005
Software Development Lab-1	SE(IT)	2005
Digital Signal & Image Processing	TE(IT)	2005
Data Communication	SE(IT)	2007
Programming in Java	TE(IT)	2008
Linux Operating System	BE(IT)	2008
Computer Network	TE(IT)	2009
Web Information System	BE(IT)	2010

- Done university paper setting for the subject: Mobile Computing (BE(CSE/IT) in 2010, 2011 for May / June examination.
- Done university paper setting for the subject: OOPS (SY(MCA)) in 2013 for May / June examination.
- Result Analysis done every semester for the following subjects:  
 Information Theory & Coding TE(IT) 2005-06, 2006-07, 2007-08.  
 Discrete Mathematics & Structures SE(IT) 2006-07, 2007-08.  
 Digital Signal & Image Processing TE(IT), 2005-2006,2006-2007 and 2007-08  
 Programming in Java (T.E.IT) 2008-2009.  
 Computer Network TE(IT) 2008-2009.  
 Linux Operating System BE(IT) 2008-2009.  
 Object Oriented Design & Analysis BE(IT), 2009-10  
 Web Information System BE(IT), 2010-11

## **Extra Curricular Activities**

- Designed the syllabus of “Big Data Analytics”, BE(IT) class w.e.f. 20014-15, February 2015.
- Designed the syllabus of “Green IT”, BE(IT) class w.e.f. 20014-15, February 2015.
- Organizing Secretary for “Soft-Tech” Project Competition Department of Information Technology in association with CSI Student Branch on 17th April 2012.
- Publicity In-charge for “Sukh-Sanvad” A One day Workshop P. E. S. College of Engineering, on 3rd March 2012.
- Done Invigilation duties in various exams like Engg. Exams, Law Exams, NET, UGC, MHCET, MSCIT, AIEEE, MBACET, etc.
- Worked as organizing committee member during talk on “Savitribai Phule’s thoughts & her contribution towards Indian Women Development ” arranged at Department of Information Technology on 26th March 2010
- Publicity In-charge of National Conference on “Emerging Trends in Information Technology” conducted by Department of Information Technology, during 29th and 30th January, 2010
- Worked as Publicity In-charge and Food Coordinator of One Day Workshop on GIS - “Prithvi Sanvardhan- 2009”conducted by Department of Information Technology, P. E. S. C. O. E., Aurangabad on 14th September, 2009.
- Member of various committees in annual social gathering: Parivartan
- Member of various committees in organized at college: Tectrix
- Publicity In-charge of National Conference on “Emerging Trends in Information Technology” conducted by Department of Information Technology, during 28th and 29th January, 2008
- Committee member in CSI Student Branch Inauguration on 6th Feb, 2012 at P. E. S. C. O. E.
- Handled Art Gallery during publication of Annual Magazine- ‘Antarvedh’ in the year 2007
- Departmental Committee Member in the Career Fair arranged by P. E. S. College of Engg., Aurangabad at Govt. College of Engg., Aurangabad in the year 2006.
- Helped in conducting University Exams during Nov / Dec 2005

## **II RESEARCH AND CONSULTANCY**

### **Paper(s) Presented/Published:**

- 1) Presented paper on “Protocols Stack for Internet of Things: A Green Perspective”, in National Conference on Green Technology, organized by Sinhgad Institute Pune on 11<sup>th</sup> -12<sup>th</sup> March 2016.
- 2) Presented paper on “Green Data Center”, in National Conference on Green Technology, organized by Sinhgad Institute Pune on 11<sup>th</sup> -12<sup>th</sup> March 2016.
- 3) Presented paper on “Green Computing Issues”, in National Conference on Green Technology, organized by Sinhgad Institute Pune on 11<sup>th</sup> -12<sup>th</sup> March 2016.
- 4) Paper published in National Conference on Advances in Communication and Computing entitled “Conducting Network Experiments using OpenFlow” organized by R. C. Patel Institute of Technology, Shirpur, 21st April 2012.
- 5) Published paper in International Conference ICSAP 10 entitled “Neural Synchronization Using Queries”, organized by International Association of Computer Science & Information Technology (IACSIT) during 9th -10th February, 2010, Bangalore.
- 6) Published paper in International Conference SENNET09 entitled “Cryptography using Neural Network”, organized by VIT University, Tamil Nadu, 7th -10th December, 2009.
- 7) Presented paper in International Conference ITECH’09 entitled “Secret key Exchange using Neural Network”, organized by Amrutvahini College of Engineering, Sangamner Institute of

- Technology, 4th-5th March, 2009.
- 8) Presented paper in National Conference on Signal processing entitled “Cryptography Using neural network”, organized by Marathwada Institute of Technology, Aurangabad, 5th-6th March, 2009.
  - 9) Presented paper in Second National Workshop on Intelligent Data Alalytics & Image Processing entitled “Data Compression Algorithms & their Complexities”, organized by Bannari Amman Institute of Technology, Tamilnadu 3rd -4th October, 2008.
  - 10) Presented paper on “Network Security: Secure Socket Layer 3.0 Protocol”, organized by IETE, IEI and P. E. S. College of Engineering. Sep. 2006.

**Seminar(s) / Workshop(s) Conducted:**

- 1) Resource person for two days workshop on “Free and Open Source Technologies” at Dept. of Information Technology, P. E. S. College of Engineering, Aurangabad, during 2<sup>nd</sup> – 3<sup>rd</sup> Dec 2013.
- 2) Delivered seminar on “Introduction to Operating Systems- Windows NT, Unix, Linux and their features”, on 31st March, 2011, at Government Poly Technique Aurangabad.
- 3) Delivered two days expert session on “Role of Computer Networking in Fourth Generation Mobile Communication”, held on 7th -11th, Feb 2011, Govt. Poly Technique Aurangabad.
- 4) Resource person for two days workshop on “Open Source Technologies” at Dept. of Information Technology, P. E. S. College of Engineering, Aurangabad, during 14th-16th , July 2010.

**Programs Organized under CSI Student Chapter**

- 1) Co-ordinated the two day workshop on “Internet of Things using Aurduino”, organized jointly by CSI Student Branch, P. E. S. College of Engineering and Revert Technology Pvt. Ltd. Entrepreneurship Cell, IIT Roorkee, on during 30 - 31<sup>st</sup> August 2016.
- 2) Organized “C programming Contest”, during 5<sup>th</sup> April 2016 on occasion of Dr. Babahaeb 125<sup>th</sup> Jayanti Celebration.
- 3) Organized Webinar on “Cloud Computing”, 20<sup>th</sup> October 2015 for BE(IT) students.
- 4) Organized workshop on “Hadoop Framework”, during 12<sup>th</sup> September 2015.
- 5) Organized workshop on “Devlopment of Soft Skills” on 13<sup>th</sup> Feb 2015.
- 6) Organized “Meditation Session” on 17<sup>th</sup> April 2014 for BE(IT) students.
- 7) Organized and attended workshop on “NS-2 workshop” during 20<sup>th</sup>- 21th Feb 2014.

**Seminar(s) / Workshop(s)/Conference(s) Attended:**

- 1) Participated in one day workshop on “Intellectual Property Rights”, on 22<sup>nd</sup> August 2016, at Dr. B. A. M. University Aurangabad.
- 2) Participated in State Level Seminar on “Convergence of Technologies”, on 10<sup>th</sup> October 2016, at P. E. S. Polytechnic, Aurangabad.
- 3) Attended Short Term Training Program on “Emerging Technologies in Open Source”, during 27<sup>th</sup> June - 01<sup>st</sup> July 2016, at Deogiri Institute of Engineering and Management Aurangabad.

- 4) Attended session on “Research Activity”, on 13<sup>th</sup> February 2016, at organized by R&D Center PESCOE.
- 5) Participated in two days workshop on “Smart City” during 28<sup>th</sup> & 29<sup>th</sup> Aug 2015, organized IEEE branch PESCOE.
- 6) Attended “Vipassana Meditation”, from 2<sup>nd</sup> to 14<sup>th</sup> August 2015, at Dhamma Ajanta Meditation Center Aurangabad,
- 7) Attended National Conference on Signal & Image Processing, during 10<sup>th</sup> -11<sup>th</sup> July, organized by SGGS E&T, Nanded
- 8) Attended “ Communication : Access to Power” on 03, 04 & 05 October 2015, organized landmark office Aurangabad.
- 9) Attended “Self-Expression & Leadership Program” from 01<sup>st</sup> March to 18<sup>th</sup> June 2015, organized landmark office Aurangabad.
- 10) Attended “Advanced Landmark Forum” on 06,07,08,& 10 Feb 2015, organized landmark office Aurangabad.
- 11) Attended “Landmark Forum” on 28,29,30 Nov & 02 Dec 2014, organized landmark office Aurangabad.
- 12) Attended international workshop on “Internet of Things” organized by IEEE Chapter Banglore on 26<sup>th</sup> & 27<sup>th</sup> September 2014.
- 13) Organized and attended IETE sponsored STTP on “Big Data Analytics”, Dept. of IT P.E.S.C.O.E. during 2<sup>nd</sup> -6<sup>th</sup> June 2014.
- 14) Organized and attended workshop on “NS-2 workshop” under CSI student branch, PESCOE during 20<sup>th</sup>- 21<sup>th</sup> Feb 2014.
- 15) Attended “Younge IT Professoinal Aword 2013” organized by CSI Aurangabad Chapter, on 1<sup>st</sup> March 2014.
- 16) Attended conference on “Recent Trends in IT”,organized by CSI Aurangabad Chapter on 28<sup>th</sup> Feb 2014.
- 17) Attended two days national workshop on “Fundamentals of Machine Learning through Soft Computing Tools” at SRTM University, Nanded during 13<sup>th</sup> 14<sup>th</sup> Feb 2014.
- 18) Attended ISTE sponsored STTP on “Data Mining Research oriented Approach” by CSE Department P.E.S.C.O.E. during 18<sup>th</sup> -22<sup>nd</sup> Nov 2013.
- 19) Attended workshop on “Network Security” organized by DIETMS Aurangabad during 10<sup>th</sup> -11<sup>th</sup> Jan 2014.
- 20) Attended workshop on “Big Data Celebration” organized by Infosys Technologies, Pune on 3<sup>rd</sup> Sep 2013.
- 21) Attended NBA workshop on 17<sup>th</sup> Sep 2013 organized by P.E.S.C.O.E., Aurangabad.
- 22) Attended TEQIP approved One Week Faculty Development Program on “Security Challenges

in Computer Science”, at SGGS E&T Nanded, during 24<sup>th</sup> -28<sup>th</sup> July 2013.

- 23) Attended TE(CSE/IT)syllabus workshop at Department of IT PESCOE on 10<sup>th</sup> Aug 2013.
- 24) Attended “e-Governance Workshop 2013” organized by Dr. B.A.M. University, Aurangabad and Director of Information Technology, Govt. of Maharashtra on 30<sup>th</sup> July 2013.
- 25) Attended workshop on “Model Based Design and Development” during 1st - 2nd Feb. 2013, conducted by Computer Society of India, Aurangabad Chapter at Hotel VITS, Station Road, Aurangabad.
- 26) Attended Faculty Enablement Program during 3rd-7th Aug., 2012 conducted by Infosys Technologies, Pune at MIT Aurangabad.
- 27) Attended Faculty Development Program during 12th -24th December, 2011 conducted by MCED Aurangabad in collaboration with EDI-I Ahemadabad.
- 28) Attended Faculty Development Program during 27th -30th June, 2011 conducted by Infosys Technologies, Pune.
- 29) Attended on day work shop on Software 2.0 Technologies, organized by Computer Society of India in October 2010.
- 30) Attended National Conference on “e-Governance” organized by Government of India and Maharashtra during 10th-11th February, 2011.
- 31) Participated in short term training program on “Linux Kernel Programming”, at Maharashtra Academy of Engineering, Alandi Pune. Jan 21st to 25th 2006.
- 32) Attended a seminar on “eSagu: Information Technology- Based Personalized Agro-Advisory System” at Dept of Information Technology, P. E. S. C. O. E., Aurangabad on 8th Dec, 2007.
- 33) Attended a seminar on “Peaceful Uses of Atomic Energy” at P. E. S. College of Engineering, Aurangabad held on 7th and 8th September, 2007.
- 34) Participated in three days workshop on “Network and Information Security”, VIIT, Pune. Jan 13th to 15th 2007.
- 35) Organized and participated conference on “Advanced Trends in Communication Technology”. By joint venture of IETE, IEI and P. E. S. College of Engineering. Sep. 2006.
- 36) Organized and participated in conducting one day workshop on “Revolutionary Trends In Information Technology”, 25th Aug 2005, at Dept. of Information Technology, P.E.S. College of Engineering.

### **III. ADMINISTRATION:**

- Worked as Chief Superintendent, Nov-Dec 2016 Examination Dr. B. A. M. University, Aurangabad.
- Working as CSI Student Branch Counselor of P. E. S. College of Engineering, Aurangabad since September 2013.
- Worked as Seminar Co-ordinator BE(IT) Class year during year 2015-2016 and 2016-17.
- Training and Placement coordinator during 2005-06, 2008 to till date.
- Worked as IT Manager for online examination of Bank of Maharashtra conducted by TCS at P.E.S. Engineering College on 28th August, 2011
- Worked as CAS officer for Nov/Dec Exam 2009 at Dr. B. A. M. University, Aurangabad.
- Setting up fully functional purely Open Source based working environment for academic as well as for regular use platform(Redhat and fedora) in Dept. of Information Technology, P. E. S. College of Engineering.
- Worked as Supervisor in MHT-CET exam conducted by Govt. of Maharashtra, at P. E. S.



College of Engineering, on 11 May 2012.

- Worked as BE(IT) Class Teacher academic year during year 2010-2011.
- Member of Broadband Internet and Networking Committee since 2007 till date P.E.S. Engineering College.
- Currently working as Lab Incharge of Operating System Lab, in Dept. of Information Technology, P. E. S. College of Engineering.
- Alumni Coordinator, during 2005-2009.
- Computer Laboratory maintenance of Department of Information Technology.
- Purchasing lab equipment.
- Setting up computer network in Department of Information Technology.
- Working as Class-Test coordinator during June 2005- May 2008 in Dept. of Information Technology, P. E. S. College of Engineering.
- Worked as Class-Teacher of SE(IT), TE(IT) & BE(IT) during various academic year.
- Admission committee member for student counseling, Jun 2006.

#### **IV. EXTENSION:**

- Organized Industrial Visit at Infosys Technologies,Pune for students of BE(IT) and TE(IT), P. E. S. Engineering College on 14<sup>th</sup> Sep 2013.
- Organized Industrial Visit at Infosys Technologies,Pune for students of B.E. (IT), P. E. S. Engineering College on 24th Sep 2011.
- Organized webinar on “ Introduction to Mainframe” on 10th August 2011.
- Organized workshop on “Ethical Hacking & Cyber Security”, by R. P World during 13th -18th September, 2010.
- Conducted one Attitude Test as T&P activity at Dept. of Information Technology P. E. S. Engineering College during 2011.
- Conducted three Attitude Test and GD as T&P activity at dept. of Information Technology P. E. S. Engineering College during 2010.
- Organized seminar on “Current Trends on .NET Framework”, by Mithali Mishra, Sharepoint Designer and Developer, Express Net Cad Solutions Pvt. Ltd, Software Park Technology Of India, Aurangabad
- Provided 24 hour facility for 8 days Internet facility to student of any branch - Attending various social functions organized by college and various colleges of P. E, Society Nagsenva, Aurangabad.
- Organized Visit to Wireless Station Sarola for students of SE(IT), P. E. S. Engineering College in 2008.
- Organized a trip of one day under the subject “Environmental Science” of SE IT to Devgad,Shirdi, Shani Shingnapur, Paithan. in Feb.2006.
- Worked as ARC official at ARC40 during 16th June – 27th August, 2009 - Conducted Aptitude Test & Group Discussion for BE(IT) class during 2010-11.
- Coordinator of “18 Hour Study Program”, organized during 121st Jayanti celebration of Dr. Babasaheb Ambedkar on 11 April 2011 at PESCOE, Aurangabad.

**(DILIP RATHOD)**