

CURRICULUM VITAE

1. Name : *Dr. Megha Venkatesh Jonnalagedda*

(Maiden name: Megha P. Salkade)



2. Date of birth : 11-12-1970

3. Designation : Associate Professor,
Department of Information Technology, SGGSIE&T, Nanded

4. Professional Aims

- a. To be a leading professional in the field of Digital Image Processing, Machine Learning, Digital VLSI and Embedded System Design.
- b. To create and provide conducive learning environment for students.
- c. Help students in all-round development and placement.

5. Academic Qualifications :

Degree	University	Field of Specialization	Year	Percentage of marks/Grade
SSC	Secondary & Higher Secondary Board, Nagpur	----	1986	20 th Merit in State, Distinction
HSC	Secondary & Higher Secondary Board, Nagpur	----	1988	88% , 1 st class with distinction
B. E.	Marathawada University, Aurangabad	Electronics Engineering	1993	69%, 1 st class with distinction
M. E.	Swami Ramanand Teerth Marathawada University, Nanded	Electronics Engineering (with specialization in <i>Computer Technology</i>)	2000	68.9%, 1 st class
Ph. D	Swami Ramanand Teerth Marathawada University, Nanded	Electronics & Telecommunication Engineering	23 rd July 2016	----

5. Employment record (starting from present position)

Period		Length of service	Institute	Designation
From	To			
07/07/2010	Till date	11 years and 9 months	SGGS Institute of Engineering and Technology, Nanded	Associate Professor, IT Department (UG)
17/06/2009	07/07/2010	1 year and 1 month	SGGS Institute of Engineering and Technology, Nanded	Associate Professor, EXTC Department (PG)
07/08/2006	30/04/2009	2 years and 9 months	Aurora's Technological and Research Institute, Hyderabad	Associate Professor
01/01/2004	10/06/2006	2 years and 5 months	Mahatma Gandhi Mission's College of Engineering, Nanded	Assistant Professor
15/07/1996	31/12/2003	7 years and 6 months	Mahatma Gandhi Mission's College of Engineering, Nanded	Lecturer
11/08/1995	14/07/1996	11 months (Adhoc)	Mahatma Gandhi Mission's College of Engineering, Nanded	Lecturer

6. Total Teaching Experience: 27 years

7. Subjects Taught:

Sr. No.	Subject Taught	UG/PG
1	Digital System Design (SY)	UG
2	Research Methodologies	PG
3	Microprocessor and interfacing (SY)	UG
4	Probability and Statistics for Data Science	PG
5	Machine Learning (Final Year)	UG
6	Human Computer Interaction (Final Year)	UG
7	Ethics in Information Technology (Final Year)	UG
8	Embedded Systems (Final Year)	UG

9	Digital Signal Processing (TY)	UG
10	Network and Lines (SY)	UG
11	Image Processing	PG
12	Multimedia Systems (Final Year)	UG
13	Basic Electronics (FY)	UG
14	VLSI Design (TY)	UG
15	Digital VLSI Design	PG
16	Low Power VLSI Design	PG
17	Electronic Devices & Circuits (I & II) –(SY)	UG
18	Digital Integrated Circuits & Analysis (TY)	UG
19	Linear Integrated circuits (TY)	UG
20	Electronic Circuit Analysis (TY)	UG

8. Projects:

- a. Talking Calculator: An application of Speech Synthesis (B. Tech.)
- b. Study of various time alignment algorithms for Speaker Dependent Speech Recognition Systems. (M. Tech.)
- c. On Some Aspects of Sign Language Interpretation (PhD thesis title)

9. PG Projects Guided:

1. **Number of Projects** - 21

2. **Titles of major projects guided**

- i. Heart disease predication system using Machine Learning – *Yuvraj Nikhate*
- ii. The Melanoma Skin Cancer Detection and Classification using Image Processing - *Farkhanda Saherish Mohammed Ayyub*
- iii. Brain Tumor Segmentation Using MRI Image – *Vallabh Baradkar*
- iv. Efficient Pattern Recognition in Time – Series Data - *Pramod Waghmare*
- v. Mining Online Reviews and Tweets for Predicting Sales Performance and Success Of Movies - *Sushmita Magdum*
- vi. Dynamic Multiple Choice Question Generation from Domain Ontology – *Yugandhara Yeotikar*

vii. Sequential Deep Learning with 3D-CNN for Human Action Recognition and Label Prediction – Pooja Somatkar

10. Publications:

1. *M. P. Salkade, D. D. Doye, T. R. Sontakke*, “Time Alignment Algorithm for Speech Recognition System”, at *International Symposium on Information Technology, Peoples’ Development and culture, Indian Academy of Social Sciences & J. K. Institute of Applied Physics and Technology, University of Allahabad, Allahabad*, February 12 – 16, 2001.
2. *Megha V. Jonnalagedda and Dharmpal D. Doye*, “Radially defined Local Binary Patterns for Facial Expression Recognition”, *International Journal of Computer Applications (0975 – 8887)*, Vol.119, No.2, pp 17-22, June 2015.
3. *Megha V. Jonnalagedda, J. S. Padmaja and Dharmpal D. Doye*, “Radially Defined Local Binary Patterns for Hand Gesture Recognition”, ICEEC 2015, 24th August, 2015 held in Kochin and later published in *International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE)*, Vol.4, No.4, pp 44 - 48 (2015), ISSN 2278 – 3091
4. *Megha V. Jonnalagedda and Dharmpal D. Doye*, “Augmented local binary patterns for facial expression recognition”, published in *International Journal of Mathematics and Computation*, ISSN 0974-570X (Online), ISSN 0974-5718 (Print), Vol. 27; Issue No. 3; Year 2016.
5. *Megha V. Jonnalagedda and Dharmpal D. Doye*, “A simple and efficient approach to extract features for facial expression recognition”, published in *International Journal of Mathematics and Computation*, , ISSN 0974-570X (Online), ISSN 0974-5718 (Print), Vol. 27; Issue No. 4; Year 2016.
6. *Vaibhav Bhosale and Megha Jonnalagedda*, "Survey on Frauds in Financial Transactions", *International Journal of Computer Science and Information Technology*, Vol. 5 (3), 2014, pp 4711-4713, ISSN:0975-9646
7. *Vivek D. Mohod and J. V. Megha*, “A Survey on Data Extraction of Web Pages Using Tag Tree Structure”, *International Journal of Computer Science and Information Technologies (IJCSIT)*, Vol. 5 (3), 2014, pp 4361-4363
8. *Abhay Jadhav and J. V. Megha*, "User Identity Prediction by Mouse Gesture Dynamics through ANN", *International Conference on Recent Innovations in Engineering, Science and Technology (ICRIEST)*, held by IRAJ Research Forum in association with Institute of Research and Journals, on 1st February, 2015, Pune.

9. *Prashant Mandale and J. V. Megha*, "Segmentation of MRI Brain Images and Improve Execution time and Performance for Automatic Diagnosis", Indian Conference on Signal and Image Processing - 2015 (ICONSIP-2015), (sponsored by Centre of Excellence - Signal and Image Processing), held during 10-11 July, 2015 at Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra.
10. *Mussavir Shaikh and J. V. Megha*, "A Biometric Modality based on typing behavior", Indian Conference on Signal and Image Processing - 2015 (ICONSIP-2015), (sponsored by Centre of Excellence - Signal and Image Processing), held during 10-11 July, 2015 at Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra.
11. *Abhay Jadhav and J. V. Megha*, "User Authentication by Mouse Signature - A survey Paper", Indian Conference on Signal and Image Processing - 2015 (ICONSIP-2015), (sponsored by Centre of Excellence - Signal and Image Processing), held during 10-11 July, 2015 at Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, Maharashtra.
12. *Sushmita Magdum and J. V. Megha*, "Mining online Reviews and Tweets for Predicting Sales Performance and Success of Movies", International Conference on Intelligent Computing and Control Systems (ICICCS 2017), organized by Vaigai College of Engineering during June 15-16, 2017 at Madurai, India, ISSN:978-1-5386-2745-7
13. *Pramod Waghmare and J. V. Megha*, "Efficient Pattern Recognition in Time Series Data", 2nd International Conference on Inventive Computational Technologies (ICICT-2017), organized by RVS Technical Campus during August 24-25, 2017 at Coimbatore, India.
14. *Vallabh Baradkar and J. V. Megha*, "Brain Tumor Segmentation using MRI images – Review", *JASC Journal (UGC approved), Volume IV, June – 2019, ISSN No: 1076-5131 (Impact factor – 5.8)*
15. *Pooja A. Somatkar and J. V. Megha*, "Sequential Deep Learning with 3D-CNN for Human Action Recognition and Label Prediction", *International Journal of Recent Engineering Research and Development (IJRERD), Volume 04 – Issue 07, July 2019, pp 40-45, ISSN: 2455-8761*
16. *Yuvraj Nikhate and J. V. Megha*, "Survey on Heart Disease Prediction Using Machine Learning", *International Journal of Creative Research Thoughts (IJCRT), Volume 8, Issue 8, August 2020, ISSN: 2320-2882, pp 1600-1606*
17. *Farkhanda Seharish and J. V. Megha*, "The Melanoma Skin Cancer Detection And Classification Using Image Processing", *International Journal of Creative Research Thoughts (IJCRT), Volume 8, Issue 8, August 2020, ISSN: 2320-2882, pp 5395 – 5400*

18. *Farkhanda Seharish and J. V. Megha*, “The Melanoma Skin Cancer Detection And Classification Using Image Processing”, *International Journal of Scientific Research in Engineering and Management (IJSREM)*, Volume 4, Issue 1, January 2020, ISSN: 2582-3930, pp 1 - 4

11. Courses / Conferences Organized:

Sr. No.	Title of the course	Institute	Duration
01	Short term training program on VLSI design using Tanner tools	Aurora’s Technological and Research Institute, Hyderabad	Four days 2007-08
02	Three-day workshop on designing using FPGA	Aurora’s Technological and Research Institute, Hyderabad	Three days 2008-09
03	Seven-day workshop on ‘Communication and Interview Skills Development’	Shri Guru Gobind Singhji Institute of Engg. And Technology, Nanded	During Semester – I, 2014-15
03	National Conference on “Advances in Computing, Networking and Security”	Shri Guru Gobind Singhji Institute of Engg. And Technology, Nanded	Two days 23-24 Dec. 2013
04	Data Mining Using STATISTICA	Shri Guru Gobind Singhji Institute of Engg. And Technology, Nanded	Six days 5 th to 10 th July 2016
05	A Statistical Approach to Research Methodology	Shri Guru Gobind Singhji Institute of Engg. And Technology, Nanded	Six days 20 th to 25 th August, 2018

12. Courses Attended:

Sr. No.	Title of the course	Institute	Dates	Duration in weeks
01	AICTE sponsored QIP short term course on "Microprocessors in Instrumentation"	SGGSCE&T, Nanded	17 th to 28 th July, 1996	2
02	AICTE sponsored, ISTE short term training program on "Digital Signal and Image Processing"	SGGSCE&T, Nanded	5 th to 17 th June, 2000	2
03	ISTE approved short term training program on "Systems Engineering: Techniques & Applications"	SGGSCE&T, Nanded	18 th to 28 th June, 2000	2

04	ISTE short term training course on "Programming with C and C++"	SGGSCE&T, Nanded	29 th June to 19 th July, 2000	3
05	STTP on "Mobilization of Financial Resources in Technical Institutes by Industry Institute Interaction" (organized by ISTE chapter of MGM)	MGM's COE, Nanded	7 th to 18 th January, 2002	2
06	AICTE sponsored ISTE STTP on "VLSI Design using VHDL"	SGGSCE&T, Nanded	24 th May to 5 th June 2004	2
07	TEQIP-I sponsored "Recent Trends in Signal and Image Processing"	SGGSIE&T, Nanded	16 th to 18 th January, 2006	3 days
08	X th Annual Convention of ISTE on "Technical Education-Technology Transfer to Rural India & Sustainable Development"	MGM's COE, Nanded	4 th and 5 th March, 2006	2 days
09	National workshop on "Low Power VLSI Design"	MIST, Hyderabad	22 nd and 23 rd March, 2007	2 days
10	AICTE sponsored Staff Development Program on "Mixed Signal VLSI Design"	AEC, Hyderabad	18 th to 30 th June, 2007	2
11	One day workshop on "Effective Research Methodology"	SGGSIE&T, Nanded	23 rd January, 2010	1 day
12	AICTE sponsored Staff Development Program on "Recent Advances in Speech, Image & Video Processing"	SGGSIE&T, Nanded	12 th to 23 rd December, 2011	2
13	TEQIP-II sponsored course on "Linear Algebra and It's Applications"	SGGSIE&T, Nanded	21 st May to 2 nd June, 2012	2
14	TEQIP-II sponsored course on "Analytical Techniques for Applied Research"	SGGSIE&T, Nanded	21 st to 25 th January, 2013	1
15	TEQIP-II sponsored FDP on "Wireless Sensors and their Applications"	SGGSIE&T, Nanded	18 th to 22 nd March, 2013	1
16	TEQIP-II sponsored FDP on "Emerging Trends in Nanoscience and Nanotechnology"	SGGSIE&T, Nanded	6 th to 10 th August, 2013	1
17	TEQIP-II sponsored on day workshop on "Rethinking, Teaching and Learning"	SGGSIE&T, Nanded	20 th January, 2014	1 day
18	TEQIP-II sponsored FDP on "Computer Vision and Pattern Recognition"	SGGSIE&T, Nanded	22 nd June to 10 th July 2015	3 weeks
19	TEQIP-II sponsored FDP on "Product Lifecycle Management"	SGGSIE&T, Nanded	25 th - 30 th May, 2016	1
20	TEQIP-II sponsored STTP on "Computer Vision and Pattern Recognition"	SGGSIE&T, Nanded	13 th - 23 rd July, 2016	2
21	Two-day workshop on "High Impact Presentations"	Dale Carnige & Associates, Mumbai	December, 2016	2

22	International IEEE WIE Summit 2016	IEEE Bangalore	25 th Aug 2016 - 17	1 day
23	TEQIP-III sponsored STTP on “Machine Learning using Python”	SGGSIE&T, Nanded	11 th – 16 th December, 2017	1 week
24	AICTE sponsored QIP short Term Interdisciplinary course on “Computer Networks”	SGGSIE&T, Nanded	12 th to 16 th March, 2018	1 week
25	Professional Development Training (PDT), sponsored by TEQIP – III	IIM, Udaipur	27 th to 31 st May, 2019	1 week

13. NPTEL FDPs Attended:

Sr. No.	Title of the Course Completed	Institute	Duration in weeks	Duration of FDP	Result of Exam
1.	Switching Theory and Logic Design	IIT Kharagpur	Jul-Oct-2018 (12 Weeks)	1&1/2 Week FDP	Elite
2.	Introduction to Research (Topper in his course)	IIT Madras	Aug-Sept-2018 (8 Weeks)	Full FDP of 1 Week	Elite (2% Topper)
3.	Health Research Fundamentals	ICMR, Chennai	Jan-Mar-2019 (8 Weeks)	Full FDP of 1 Week	Elite + Silver
4.	Teaching & Learning in Engineering (TALE)	IISc, Bangalore	Feb-Mar-2019 (4 Weeks)	1/2 FDP of 1 Week	Elite + Silver
5.	Qualitative Research Methods & Research Writing	IIT, Kharagpur	Jan-Apr-2019 (12 Weeks)	1&1/2 Week FDP	Elite
6.	Body Language: Key to Professional Success	IIT, Roorkee	Jul-Sept-2019 (4 Weeks)	1/2 FDP of 1 Week	Elite
7.	Problem Solving using C	IIT, Kharagpur	Jul-Oct-2019 (12 Weeks)	1&1/2 Week FDP	Completed
8.	Accreditation & Outcome Based Learning	IIT, Kharagpur	Aug-Sept-2019 (8 Weeks)	Full FDP of 1 Week	Elite + Silver
9.	Enhancing Soft Skills and Personality	IIT, Kanpur	Jan-Mar-2020 (8 Weeks)	Full FDP of 1 Week	Elite + Silver
10.	Medical Image Analysis	IIT, Kharagpur	Feb-Mar-2020 (4 Weeks)	½ FDP of one week	Elite
11.	Developing Soft Skills	IIT, Kanpur	Jul-Sept-2020 (8 Weeks)	Full FDP of 1 Week	Elite + Silver
12.	Introduction to Probability & Statistics	IIT, Madras	Jan-Feb-2021 (4 Weeks)	½ FDP of one week	Elite
13.	An introduction to Information Theory	IIT, Kanpur	Jan-Mar-2021 (8 Weeks)	Full FDP of 1 Week	Successfully completed
14.	Design, Technology, and Innovations	IIT, Bombay	Aug-Oct-2021 (8 Weeks)	Full FDP of 1 Week	Elite + Silver

15.	Development Research Methods	IIT, Guwahati	Aug-Oct-2021 (8 Weeks)	Full FDP of 1 Week	Elite
16.	Ethics in Engineering Practice	IIT, Kharagpur	Aug-Oct-2021 (8 Weeks)	Full FDP of 1 Week	Elite + Silver
17.	Soft Skills (Topper in this course)	IIT, Roorkee	July-Oct-2021 (12 Weeks)	1&1/2 Week FDP	Elite + Silver
18.	Effective Engineering Teaching in Practice	IIT, Madras	Jan-Feb-2021 (4 Weeks)	½ FDP of one week	Elite + Silver
19.	Introduction to Professional Scientific Communication	IIT, Kanpur	Jan-Feb-2021 (4 Weeks)	½ FDP of one week	Elite

14. ATAL Courses Attended:

Sr. No.	Title of the Course Completed	Institute	Duration
1.	Deep Learning and Artificial Intelligence	Indira Gandhi Technical University for Women	21-09-2020 to 25-09-2020
2.	Capacity Building	University of Petroleum and Energy Studies	12-10-2020 to 16-10-2020
3.	Productivity Enhancement	Shri Kishoritai Bhoyar Coll. of Pharmacy, Nagpur	14-12-2020 to 18-12-2020
4.	Data Sciences	Dr. Ambedkar Institute of Technology	01-02-2021 to 05-02-2021
5.	Capacity Building of Women Leaders in Higher Education	SRM Institute of Science and Technology	12-07-2021 to 16-07-2021
6.	FDP on Authentic Leadership and Excellence	Central University of Jammu.	22/11/2021 to 26/11/2021
7.	FDP on Telemedicine	National Institute of Technology, Jamshedpur	09-08-2021 to 13-08-2021
8.	Introduction to Speech Processing and it's Applications using AI-ML	C-DAC, Kolkata	25-10-2021 to 29-10-2021

15. PhD Scholars Guided (currently working):

1. Chetan Malwade: Registered in August 2021
Topic: "Addressing key big data analytics challenges in healthcare domain using artificial intelligence"
2. Rajkumar Panchal: Registered in August 2021
Topic: Osteo and Pneumato Arthritis detection using Image Processing

16. Institute and University level activities:

- a. Developed VLSI Laboratory at the Institute. (In MGM)

- b. Member of Academic Cell meant for inculcating academic discipline in the institute. (in MGM)
- c. Worked as Chief Superintendent for University Examination (thrice). (in MGM)
- d. Member, Board of Studies (Electronics & Telecommunication Engineering) at Swami Ramanand Teerth Marathawada University, Nanded. (During MGM tenure)
- e. Member, 32/5 committee (theory & practical examination related planning work) at Swami Ramanand Teerth Marathawada University, Nanded. (During MGM tenure)
- f. Worked as departmental in charge for preparing NBA proposal at MGM's COE, Nanded, ATRI, Hyderabad, and SGGSI&T, Nanded.
- g. Prepared MODROBS proposal for VLSI Laboratory for EXTC Department at SGGSI&T, Nanded which got approved. A grant worth 17 lacs got sanctioned.
- h. Prepared MODROBS proposal for Embedded Systems Laboratory for IT department at SGGSI&T, Nanded which got approved. A grant worth 6 lacs got sanctioned.
- i. Executive Member of SGGSI Engineers' Alumni Association (SEAA) – a Charitable Trust since 2010 till Dec. 2015
- j. Played a pivotal role in organizing Alumni Meet – 2011 at SGGSI&T, Nanded.
- k. Worked as Departmental T & P Coordinator (from 2010 to 2013) for IT department at SGGSI&T, Nanded.
- l. Worked as one of the Faculty Advisor (Sponsorship), for PRAGYAA - a National level Technical Symposium at SGGSI&T, Nanded.
- m. Worked as Faculty In-charge for the Institute Magazine – DRISHTI at SGGSI&T, Nanded, during academic year 2012-13, which won first prize at SRTM University, Nanded.
- n. Worked as Head, IT Department from 7th July 2013 till 7th August 2017.
- o. Prepared a proposal for Advance IT Lab and submitted to Govt. of Maharashtra. Received a grant of 155 lacs towards developing the laboratory (October 2013).
- p. In an effort to increase Industrial tie ups, signed up a MoU with Laurus Infosystem, Bangalore, through which provided Internship for 12 students and placement for four students (till Jan. 2015-16). Further - 2 in 2017-18, 4 in 2018-19.
- q. Constituted an Industry Advisory Panel for IT department in order to enhance industry relations and for getting help related to syllabus modification, projects, internships, placement, etc.
- r. Worked as Main Coordinator of the Alumni Meet – 2016 (held during 24th and 25th December 2016)

- s. Worked as Exam Coordinator for the first semester examinations (Midterm and End term) during the academic year 2017-18
- t. Appointed as a member on the Ad hoc BOS in Computer and Information Technology in the faculty of Science and Technology at SRTMU, Nanded from 26th April, 2018 for a period of Two years.
- u. Appointed as member secretary of the “Mahila Takrar Samiti” at college level from Oct. 2019 for a period of Two years.
- v. Worked as CS for SRTMU PhD Course work examination from 22/02/2022 to 24/02/2022

16. Membership of Professional Bodies:

Life member of Institution of Engineers (India)

Life member, IET

IEEE member during 2012-13

Member CSI January 2014 to 2016

Dr. Mrs. J. V. Megha
Associate Professor,
IT Department