

Dr. Mohan Awasthy

B. E.(Electronics), M. Tech.(Computer Technology),

(Electronics and Telecommunication)

Ph. D.(Electronics and Telecommunication)

20th September 1974, awasthyamohan@gmail.com

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Present Status: Principal

Rungta College of Engineering and Technology Bhilai Chhattisgarh

Qualification

Examination	Board/University	Session	RESULT
Higher Secondary School Certificate	M.P. Board of Secondary Education.	1992	72%
B.E. (Electronics)	Nagpur University	1996	62% (First Div.)
M.Tech (Computer Technology)	NIT Raipur	2005	76% Honours
PhD. (Electronics& Telecommunication.)	Chhattisgarh Swami Vivekanand Technical University, Bhilai C. G	2012	Awarded
M.Tech. (Electronics and Telecommunication)	G H Rasoni University Amarawati	2020	7.35 (CGPI)

PROFFESIONAL EXPIRIENCE

S.No.	POST	NAME OF ORGANISATION	PERIOD OF SERVICE
1	Principal and Professor	Bharati Vidyapeeth Deemed to be University Department of Engineering and Technology (Off-Campus) Navi Mumbai	12/05/2022 to Till Date
2	Principal and Professor	Rungta College of Engineering and Technology Bhilai	24/08/2019 to 10/05/2022
3	Principal and Professor	G H Rasoni Institute of Engineering and Technology Nagpur	04/07/2018 to 10/08/19
4	Professor and Head	SVKM's NMIMS Shirpur Campus Mukesh Patel Technology Park Shirpur Maharastra	10/07/17 to 30/06/18
5	Associate Professor	Symbiosis University of Applied Sciences Indore MP	06/07/2016 to 30/06/17
6	Professor	Rungta College of Engineering and Technology Bhilai	07/02/2014 to 24/06/ 16
7	Professor	Institute of Technology Korba (An Autonomous Institute working under PPP Model)	16/09/13 to 06/02/14
8	Professor	Shri Shankarcharya Technical Campus Shri Shankarcharya Group of Institutions Faculty of Engineering and Technology	01/05/12 to 04/09/13
9	Associate Professor	Shri Shankaracharya College of Engineering & Technology Bhilai C.G.	24/12/05 to 30/04/12

10	Lecturer	Shri Shankaracharya College of Engineering & Technology Bhilai C.G.	13/02/01 to 23/12/05
10	Lecturer	Raipur Institute of Technology Raipur C.G.	04/11/98 to 31/01/01
11	G.E.T.	FAB WORTH (I) Ltd. Raipur C.G.	03/03/97 to 28/11/98

Work Profile and Academic Position

Principal

Bharati Vidyapeeth Deemed to be University

10/05/2022 to Till Date

Department of Engineering and Technology (Off-Campus) Navi Mumbai

Working as Founder Principal

Principal

Rungta College of Engineering and Technology Bhilai

28/08/2019 to 10/05/2022

Responsibility of NIRF, NAAC and NBA. Institute got the RANK in NIRF first time. At my Joining the Institute was having B+ Grade. Under my leadership Institute Applied for Re-assessment and Got A Grade with Grading of 3.23 in 4 point Scale.

Principal

G H Raisonni Institute of Engineering and Technology Nagpur

4th July 2018 till date

Institute was having B+ grade in second cycle. In second cycle when applied in January 2019 team visited in April 2019 and we got A+ grade with 3.5 in four point scale.

Professor and HOD Electronics and Telecommunication

Mukesh Patel School of Technology Management

NMIMS University Shirpur Maharashtra

July 10th 2017 30th June 2018

- Worked as Head of the Department of Electronics and Telecommunication and Mechatronics.
- Responsible for all the academic and administrative responsibility of Electronics and Telecommunication and Mechatronics of the University.
- Member of Board of Studies of NMIMS University Mumbai

Associate Professor Electronics

Symbiosis University of Applied Sciences Indore

July 7th 2016 – 30th June 2017

- Installing and Developing the Lucas Nuelle lab for Automobile Engineering, Mechatronics Engineering, and Computer Sciences Engineering for Industrial Training and Skill Development of UG and PG Students.
- Certified Trainer of Lucas Nuelle Germany.
- Planning and Preparing Credit Transfer based, multi entry and multi exit scheme and syllabus for B.Tech. Mechatronics with Industrial Input.

- Planning, preparing the skill based Syllabus for Electronics and Electrical Subjects of B.Tech Computer Science and Information Technology and B.Tech Automobile.

Professor Electronics and Telecommunication

Rungta College of Engineering and Technology

Feb 6th 2014 to June 24th 2016

- Worked as Dean Lab upgradation and Hands on Training
- Worked as Coordinator for NBA Accreditation for the Institute
- Prepared over all format to map and achieve Program Outcome, Program Educational Outcome, Course Objective and Course Outcome.
- Member of board of Studies of Chhattisgarh Swami Vivekanand Technical University Bhilai Chhatisgarh.

Professor Electrical and Electronics

Institute of Technology Korba Chhattisgarh

September 6th 2013 to Feb 6th 2014

- Worked and Dean Academics and Head of Department.
- Worked as Examination Superintendent of Chhattisgarh Swami Vivekanand Technical University Bhilai
- Worked as supervisor and administrator for various Technical Training organized by Govt of Chhattisgarh.

Professor Electronics and Telecommunication

Shri Shankarcharya Technical Campus faculty of Engineering and Technology

May 1th 2012 to Feb 6th 2014

- Worked as PG Coordinator of the Institute.
- Worked as Coordinator for NBA Accreditation for the Institute.
- Worked as Coordinator academic affairs.
- Worked as member of Inspection Committee of Chhattisgarh Swami Vivekanand Technical University for approval of New Course and Increase in Intake.

Associate Professor Electronics and Telecommunication

Shri Shankarcharya Technical Campus faculty of Engineering and Technology

December 24th 2005 to April 30th 2012

- Worked as PG Coordinator of the Institute.
- Worked as Coordinator for NBA Accreditation for the Institute.
- Worked as Head of Department
- Worked as Training and Placement officer
- Member of Syllabus formation committee Chhattisgarh Swami Vivekanand Technical University Bhilai

Assistant Professor Electronics and Telecommunication

Shri Shankarcharya College of Engineering and Technology and Raipur Institute of Technology

November 4th 1998 to 23rd December 2005

- Worked as Head of Department
- Develop Basic Electronics, Advanced Electronics, Microprocessor, Embedded System, Advanced Communication, Virtual Simulation Lab for Electronics and Telecommunication and Information Technology.

Honours and Awards

1. Received best paper award from Institution of Engineer 21 National Convention of IE(I) 4th – 5th Feb 2006

Research Publications in Brief:

Total of 38 research papers published in Scopus Index and UGC Care listed journals and 18 research papers published in National and International conferences.

Patent Awarded

- 1) Australian Patent for Motion planning and control algorithm for obstacle avoidance for point mobile robots **Patent number:** 2021101936
- 2) Indian Design Patent “Portable Camera Holder” **No 346524-001** Dated 21/07/2021
- 3) Indian Design Patent “Smart Dust Bin with Cleanness Analysis” **No 354230-001** dated 03/12/2021
- 4) Indian Design Patent “Smart EGG Incubator Monitoring Device” **No 361104-001** dated 23/03/2022
- 5) Indian Design Patent “Skin Cancer Detecting Scanner” **No 363913-001** dated 09/05/2022
- 6) Indian Design Patent “Laptop Stand” **No 356273-001** dated 06/01/2022

Patent Published

- 1) A Complete Indian Utility Patent published **application no 202021036252** for IOT Based Smart Garbage Monitoring and thereof
- 2) A Complete Indian Utility Patent published **application no 2021043328** Rq No. R20202030887 Activity Tracker for the child with Clubfoot using Braces
- 3) A Complete Indian Utility Patent published **application no 20214100008884** for Artificial Intelligent Based Insurance Service Fraud Detection System

Project Funded

4,00,000 (Four Lacks Rupees) by AICTE for International Conference.

Ph.D. Awarded:

1. Mr. Manish Pandey “*Study and Design of Neuro Fuzzy for Predicting Emotional State in Humans*” Dr. C V Raman University Bilaspur Chhattisgarh. **Awarded**
2. Mr. Avinash Dhole “*Investigation and Development of Performance Improvement Approaches in*

Concurrent Processing” Dr. C V Raman University Bilaspur Chhattisgarh. **Awarded**

3. Mr. Ritesh Diwan “Simulation, Designing and Analysis of Wireless Powering in Satellite Transceiver System” Dr. C V Raman University Bilaspur Chhattisgarh. **Awarded**

List of Publications

National and International Journals

Scopus and SCI Index

1. “Blockchain-Based Secure Mengers Authentication for Industrial IoT” Proceedings of the 2022 11th International Conference on System Modeling and Advancement in Research Trends, SMART 2022, 2022, pp. 853–858 [10.1109/SMART55829.2022.10046934](https://doi.org/10.1109/SMART55829.2022.10046934)
2. “Analysis and Impacts of Grid Integrated Photo-Voltaic and Electric Vehicle on Power Quality Issues” *Energies* 2023, 16(2), 714; <https://doi.org/10.3390/en16020714>
3. “Study & Scheme Of Neuro-Fuzzy System With Various Databases for Emotional States Recognition” International Journal of Advanced Science and Technology I ISSN: 2005-4238 Vol. 29, No. 7, (2020), pp. 804-810 Impact Factor .41 Published by Science and Engineering Research Support Society SERSC Australia PO Box 5014, Sandy Bay TAS 7005, Australia <http://serisc.org/journals/index.php/IJAST/article/view/14924>
4. “Power Transmission through Solar Power Satellite to Earth Surface with Minimum Power Loss” International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-6, August 2019 pp 845-850 Impact Factor 1 Blue Eyes Intelligence Engineering & Sciences Publication (BEIESP) <https://www.ijeat.org/portfolio-item/f8042088619/>
5. “Mobile Robot Path Planning using Weight Grid Algorithm” International Journal of Control and Automation ISSN: 2005-4297 Vol. 13, No. 1, (2020), pp. 477 – 484 Imacct Factor 0.1 Published by Science and Engineering Research Support Society SERSC Australia PO Box 5014, Sandy Bay TAS 7005, Australia <http://serisc.org/journals/index.php/IJCA/article/view/26862>
6. “Design and Analysis of Mutual Inductance Based Wireless Power Transfer (WPT) System Suitable for Powering Solar Power Satellite (SPS)” International Journal of Advanced Science and Technology ISSN: 2005-4238 Vol. 29, No. 12s, (2020), pp. 941-952 Impact Factor .41 Published by Science and Engineering Research Support Society SERSC Australia PO Box 5014, Sandy Bay TAS 7005, Australia <http://serisc.org/journals/index.php/IJAST/article/view/22558>
7. “Dynamic Load Distribution to Improve Speedup of Multi-Core System Using MPI With Virtualization” International Journal of Advanced Science and Technology ISSN: 2005-4238 Vol. 29, No. 12s, (2020), pp. 931-940 Impact Factor .41 Published by Science and Engineering Research Support Society SERSC Australia PO Box 5014, Sandy Bay TAS 7005, Australia <http://serisc.org/journals/index.php/IJAST/article/view/22557>
8. “Critical Review and Assessment of Space Based Solar Power Satellite (SBSPS)” Test Engineering and Management May - June 2020 ISSN: 0193-4120 pp 11322 - 11336 Mattingley Publishing Co. USA <http://testmagazine.biz/index.php/testmagazine/article/view/9191>
9. “Review, Study & Modelling of Neuro-Fuzzy System, It's Performance Comparision Using Various Speech Databases for Recognition of Emotional States” Journal of Critical Reviews ISSN- 2394-5125 Vol 7, Issue 12,2020 pp 1231-1240 Impact Factor 1.091 Jalan ampang, Kuala Lumpur, malaysia
10. “Soft-Computing Techniques for Functional MRI Brain Image Classification” International Journal of Pharmacy and Technology ISSN 0975-766X June-2020 Vol. 12 Issue No.2 pp 32155-32169. <https://www.ijptonline.com/wp-content/uploads/2021/02/32155-32169.pdf>

11. *Automatic Obstacle Detection for a Star Algorithm using Digital Image Processing* AMSE JOURNALS – 2015-Series: Advances B; Vol. 58; N° 1; pp 84-93 University of Lyon (France)
https://iieta.org/sites/default/files/Journals/AMA/AMA_B/58.1_06.pdf
12. *“Psychology of the Students During, Pre & Post Covid-19”* International Journal of Pharmaceutical Research Oct - Dec 2020 ISSN 0975-2366 Vol 12 Issue 4 Association of Indian pharmacist-AIP
<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-995155>
13. *“Issues and Challenges of Microwave Power Transmission Suitable for Solar Power Satellites”* Journal of Green Engineering (JGE) ISSN 2245-4586 Volume-10, Issue-9, September 2020 Alpha Publishers, No:115, Ramachandra Road, R.S Puram, Coimbatore, TamilNadu, India.
<http://www.jgenng.com/wp-content/uploads/2020/11/volume10-issue9-54.pdf>
14. *Structural, electronic and optical properties of Sr₂SiO₄ doped with Eu²⁺ and Dy³⁺ A first principle study* Science Direct Material Science Proceedings ISSN 2241-7852 Volume 33, Part 7, 2020, Pages 4486-4492
<https://doi.org/10.1016/j.matpr.2020.07.714>
https://hero.epa.gov/hero/index.cfm/reference/details/reference_id/8382705
15. *“Performance Analysis of Air Cushion Vehicle”* Solid State Technology Volume: 63 Issue: 6 Impact Factor 0.3 Archives Available
<http://www.solidstatetechnology.us/index.php/JSST/article/view/4558>
16. *A review on the Feasibility and Application of Geospatial Techniques in Geotechnical Engineering Field*, Materials Today: Proceedings Volume 49, Part 2, 2022, Pages 311-319
<https://doi.org/10.1016/j.matpr.2021.02.108>
<https://www.sciencedirect.com/science/article/pii/S2214785321011706>
17. *“Brain Lesion Detection: An Architecture Based on Convolution Neural Network”* Journal of Cardiovascular Disease Research ISSN: 0975-3583, 0976-2833 pp 245-254 VOL 12, ISSUE 03, 2021
<http://jcdronline.org/admin/Uploads/Files/624409e842fc11.26627213.pdf>
18. *Modeling & Testing of 3D -Printer Specimens by Universal Testing Machine* Design Engineering ISSN: 0011-9342 Issue: 6 Pages: 1084 - 1091 2021
19. *A Novel 2d Fir Filter Based Skull Stripping And Brain Tumor Localization Using Antlion Optimization* Turkish Journal of Physiotherapy and Rehabilitation 32(3) ISSN 2651-4451 e-ISSN 2651-446X pages 8471-8481 2021
20. *Benchmarking And Reverse Engineering Of Pcba’s For Iecp’s & Hvac’s* Turkish Online Journal of Qualitative Inquiry (TOJQI) e-ISSN 1309-6591 Volume 12, Issue 8, July, 2021: 609 -617
<https://www.tojqi.net/index.php/journal/article/view/3289>
21. *Modelling & Structural Analysis Of Pipe Fitting By Ansys* Turkish Online Journal of Qualitative Inquiry (TOJQI) e-ISSN 1309-6591 Volume 12, Issue 8, July, 2021: 618 -626
<https://www.tojqi.net/index.php/journal/article/view/3290>

Web of Science UGC care list and Peer Reviewed Journal Publications

1. *“Path Planning of Mobile Robots by using Weight Grid Table”* International Journal of Neural Network and Application ISSN 0974-6048 2(1) January – June 2009 Page No 31-35
2. *“A Modified Weight Grid Method for Path Planning of Mobile Robot”* in International Journal of Advance Engineering and Application ISSN 0975-7783 June 2010 Page No 223-227
3. *“Identification of Individual using Voice and Fingerprints”* in Research Journal of Engineering and Technology ISSN 0976-2973 2(2) April – June 2011 Page No 95-100

4. *“Interference Reduction in CDMA Using SIC” International Journals of Scientific Engineering Research ISSN 2229-5518 2(9) September 2011 Page No 1-4*
5. *“Multi-Channel Image Compression Using JPEG-DCT with RGB Color Model” International Journal of Engineering Research & Technology ISSN 2278-0181 1 (10) December 2012 Page No 1-6*
6. *“Mobile Robot Path Planning: A Review” I Manager ‘s Journal on Software Engineering ISSN 2230-7168 7 (3) January – March 2013 Page No 32 - 38*
7. *“Strategic Approach to Image Block Segmentation” International Journal of Scientific Research Engineering & Technology ISSN 2278-0882 2 (10) Page No 604-609 January 2014*
8. *“Automatic Obstacle Detection using Image Segmentation” International Journal of Emerging Technology and Advanced Engineering ISSN 2250 – 2459 4(3) March 2014 Page No. 1 -6*
9. *“Obstacle Locating Capabilities of Mobile Robot Using Various Navigational Aids” International Journal Of Engineering And Computer Science ISSN 2319 7242 2(12) December, 2013 Page No. 3572-3575*
10. *“Path Planning for Mobile Robot Navigation using Image Processing” International Journal of Scientific and Engineering Research ISSN 2229 5518 4(6) June 2013 Page No 1490 – 1496*
11. *“Realization of External Wireless Power Supply to Solar Satellite using Inductive Coupling” IJARSE Volume 06 issue 2 pp 268 – 279 ISSN 2319 – 8354 September 2017*
12. *“Q Learning Based Technique for Accelerated Computing on Multicore Processor” IJCSE Vol 8 No. 5 601- 607 ISSN: 0976 – 5166 Oct – Nov 2017*
13. *“Synchronous Q Learning Based Technique for Performance Improvement in Multi Core Processor” International Journal of Technology Vol. 8 Issue 2 ISSN 2231 3907 (Print) ISSN 2231 – 3915 (Online) July – December 2018.*
14. *“SPEECH ANALYSIS AND SYSTEM DESIGN” CLIO An Annual Interdisciplinary Journal ISSN: 0976-075X (UGC Care Listed Journal) Vol-06 Issue-7 April 2020*
15. *“PREDICTING EMOTIONAL STATES IN HUMANS INTRODUCTION” Tathapi ISSN: 2320-0693 (UGC Care Listed Journal) Vol-19 Issue-7 April 2020*
16. *“A Literature Review on Image Processing and Classification Techniques for Agriculture Produce and Modeling of Quality Assessment system for Soybean industry Sample” International Journal of Innovative Research in Electronics and Communications (IJIREC) Volume 6, Issue 2, 2019, PP 8-16 ISSN 2349-4050 (Online) & ISSN 2349-4042 (Print) DOI: <http://dx.doi.org/10.20431/2349-4050.0602002>*
17. *Investigation of De Speckling Techniques for Echocardiographic Images: A Review. Preprints 2018, 2018030119 (doi: 10.20944/preprints201803.0119.v1*
18. *Advances and Applications in Mathematical Sciences Volume 21, Issue 9, July 2022, Pages 5163-5171 https://www.mililink.com/upload/article/2021782243aams_vol_219_july_2022_a28_p5163-5171_ram_krishna_et_al..pdf*

19. "Response Surface Optimized Robotic Spraypainting Metamodeling For Fanuc Paint Robot P-250ib/15" *Advances and Applications in Mathematical Sciences Volume 21, Issue 9, July 2022*, ISSN 0974-6803 Pages 5163-5171 Mili Publications, India

Book Chapter

"Study of Emotional Intelligence & Neuro-Fuzzy System" in *Analysis of Medical Modalities for Improved Diagnosis in Modern Healthcare* ISBN No. 9781003146810 CRC Press 11th August 2021 doi <https://doi.org/10.1201/9781003146810>

National and International Conferences

- 1 "Obstacle Detection using Image Processing" *An International Conference on Advance Research Applications in Engineering and Technology* 23- 24 March 2014 Rungta College of Engineering and Technology Bhilai – Raipur
2. "Challenges in Smooth Roaming in Mobile Communication in National Conference Managing Complexity in Informative World BITCON 2008
3. "Neural Network in Hardware A Survey" in *National Conference Managing Complexity in Informative World BITCON 2008*
4. "Nega Binary System for low power dissipation" *10th International Conference of International Academy of Physical . Science* Bilaspur Jan 12-14 2008.
5. *National Conference Managing Complexity in Informative World BITCON 2008*
6. "Voice Activated Calculator A Real Time Implementation" *10th International Conference of International Academy of Physical Science* Bilaspur Jan 12-14 2008
7. "Nega Binary System Hard ware Implementation." *Technovision –07 26th–27th Oct. 2007 SSCET Bhilai*
8. "Practical Data Mining in Large utility company" *Technomelange –08 16 feb 08 BIT Durg*
9. "Speech Recognition System A real Time Implementation". *Technovision –07 26th –27th Oct. 2007 SSCET Bhilai*
10. "Application of Signal for curing Diseases". *21 National Convention of IE(I)* 4th-5th Feb 2006
11. "Generation of Indian Classical music on microprocessor" *Savvy 05 SSCET Bhilai 28th –29th Jan 05*
12. "Development of Performance Improvement approach in Concurrent Processing", *6th International Conference "Shaastrarth – 2020" on the topic of "Socio-Economic Impact of Innovations in Sciences & Engineering"* during 19th - 20th December 2020
13. "Analysis of WPT through Novel Approach using different Energy Harvesting Methods for Low Powered Electronic Devices", *International Conference "Shaastrarth – 2020" on the topic of "Socio-Economic Impact of Innovations in Sciences & Engineering"* during 19th - 20th December 2020
14. "Anticipating Critical Implications from the Internet of Things" *National Conference on Advance Materials and Environmental Science by CSIR* 14th – 15th Oct. 2019

15. "A Comprehensive Study of Neuro Fuzzy System and Emotional States Recognition Techniques" Proceedings of All India Conference (AICON'19) on "New Age Skills", April 26th -27th, 2019 ISBN: 978-81-923288-7-4
16. *Speech Recognition System A real Time Implementation* Technovision 2007 National Level Conference 26th and 27th Oct 2007

Membership of Professional Body:

1. Senior Member of IEEE
2. Life Associate member "Institution of Engineers (India)".
3. Life Member "Indian Society for Technical Education".
4. Professional Member "Association of Computing Machinery".

Industrial Training/AICTE/STTP attained:

2. Sort term training program on "DSP Tools and Practice" Organized by G.S. Sanyal School of Telecommunications IIT Kharagpur, during 06-11 June 2005.
3. Workshop on "OrCAD and Applications" by Cadence EDA software, on Jan 2005 in Department of Electronics Engineering. SSCET BHILAI (C.G.).
4. Workshop on "Lab View Programming" organized by Shri Shankaracharya College of Engineering & Technology Bhilai delivered by Trident Tech labs Pune during 21-25 Sep 2012.
5. Workshop on "Virtual Instrumentation through Lab View" organized by IIPC Department of Electronics and Telecommunication, Shri Shankaracharya College of Engineering & Technology Bhilai 3rd December 2008.
6. Workshop on "MATLAB APPLICATIONS" organized by Department of Electrical & Electronics and Electronics and Telecommunication Engineering, Shri Shankaracharya College of Engineering & Technology Bhilai during 04-10 May 2006.
7. VLSI Design and Recent Trends in Nano Electronics 18th – 22nd December 2006 at NIT Hamirpur
8. Advance faculty development Program 18th – 29th June 2012 Organized by CDAC Hyderabad on "Hardware and firmware design for ARM based Embedded System,"
9. Attended 15 days Training on VHDL and FPGA Implementation on March 2013 by Ambition Technologies New Delhi

References

Name Dr. Anupam Shukla	Name Dr B.K. Joshi
Director Indian Institute of Technology Surat Gujrat	Director and Professor Electronics and Telecom Director Research Centre Military College of Telecommunication Eng. Mhow MP
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Dr. Mohan Awasthy