

## BIO-DATA

1. Name: Dr. JASBIR SINGH SAINI.
2. Father's Name: Sh. PRITAM SINGH.
3. Address for correspondence: Dr. J.S. SAINI,  
Q. No. 4043,  
ELDECO COUNTY, SECTOR-19,  
SONIPAT-131039 (HARYANA).



- 4.(a) Last Designation in Govt: Ex-Professor,  
(superannuated on 30.4.2021) ELECTRICAL ENGG. DEPT.,  
D.C.R. UNIV. OF SCIENCE & TECH.,  
(A Govt. of Haryana State Univ.)  
MURTHAL, SONIPAT-131 039 (HARYANA).
- (b) Present position: Director & Professor w.e.f. 21.5.2023 at  
Panipat Institute of Engg. & Tech., Samalkha, Panipat.
5. Phone & Email ID: 9416351300, 9416354914; jssain@rediffmail.com  
(Please note absence of "i" at the end of 'jssain' in Email ID)
6. Date of Birth: 10.4.1961; Place of Birth: Village Kunt,  
Distt. Hoshiarpur (Pb.).

### 7. ACADEMIC QUALIFICATIONS (Exams. Passed from Matric onwards to Doctorate degree)

| S. No. | Examination & Year                 | Subject(s)   | Division  | % age of marks obtained | School/ College attended                  | Board / University             |
|--------|------------------------------------|--|---|-------------------------|---|--------------------------------|
| 1.     | Matric, 1977                       | Math, Sci, Eng, Hindi, Panjabi, S.S., Health & Phy. Edu., First Aid. | <b>1<sup>st</sup> with Merit, National S/ship (1978-83)</b> | 1386 / 1700 = 81.53%    | Vishvakarma Hr. Sec. Sch., Ludhiana (Pb.) | Pb. Sch. Edu. Brd., Chandigarh |
| 2.     | Pre-Univ., 1978                    | Math, Phy, Chem & Eng.   | 1 <sup>st</sup>   | 537 / 800 = 67.13%      | D.A.V. College, Chandigarh                | Punjab Univ., Chandigarh       |
| 3.     | Pre-Engg., 1979                    | Math, Phy, Chem, Eng, & Optional Panjabi                             | 1 <sup>st</sup>   | 485 / 650 = 74.62%      | -do-                                      | -do-                           |
| 4.     | B.Sc. in Engineering (Electrical), | Electrical Engg. Subjects  | <b>1<sup>st</sup> with HONS. &amp; SILVER</b>               | 6314 / 8000 = 78.93%    | G.N. Engg. College, Ludhiana              | -do-                           |

|    |               |  |   |   |   |  |
|----|---------------|--|---|---|---|--|
|    | 1983          |  | <b><u>Medalist</u></b>  |   | (Pb.)   |  |
| 5. | M.Tech., 1989 | Control Engineering & Instrumentation (offered by Electrical Engg. Dept.)    | <b><u>1<sup>st</sup> in Branch despite crediting excess no. of subjects</u></b> | 8.824 on a 10-point scale   | <b>Indian Institute of Tech., New Delhi</b>                   | <b>I.I.T., New Delhi</b>   |
| 6. | Ph.D., 2003   | 'Intelligent Control Techniques & Applications' under Electrical Engg. Dept. | Awarded vide M.D. Univ. (Rohtak) Noti. No. 2003/ 63 dtd. 9.9.03                 | One <b>IEEE Journal</b> , two International Journal, 5 International Conf. & One Conf. Papers | EED, CRSCE, Murthal, with one guide from <b>I.I.T., Delhi</b> | M.D. Univ., Rohtak (Haryana), with one guide from <b>I.I.T., Delhi</b> |

## 8. ACADEMIC DISTINCTIONS (PRIZES, MEDALS, AWARDS):

- 8.1 Awarded the **GOLD MEDAL** for the **BEST ALROUND STUDENT AWARD** at B.Tech. for the batch 1979-83. *This award is bestowed once in the Degree (of 4 years) to only one among all the branches.*
- 8.2 **Stood 1<sup>st</sup> in discipline/ branch despite crediting excess / more than requisite no. of subjects** in M.Tech. at **I.I.T., New Delhi** (1988-89).
- 8.3 Stood **consistently 2<sup>nd</sup> in all 4 yrs. of degree** & awarded the **INSTITUTIONAL SILVER MEDAL & MERIT CERTIFICATES**.
- 8.4 Awarded the **National Scholarship for continuous 6 years** (1978-83).
- 8.5 Awarded, in 18<sup>th</sup> National Systems Conference (held at D.E.I., Agra, Jan. 14-16, 1995) the Systems Society of India's **HIGH QUALITY PRESENTATION AWARD** for a research paper.
- 8.6 Awarded '**CERTIFICATE OF MERIT**' for **2004-05** by **Institution of Engineers (India)** for a paper (Genetic Algorithm Based PID Tuner) published in Journal of the Institution of Engineers (India): Electrical Engg. Divn. on 16.12.2005.
- 8.7 Awarded the Nation Builder Award 2015 on Teachers' Day Sept. 2015 by Rotary International under Rotary India Literacy Mission.
- 8.8 Awarded the Teacher's Appreciation Award for contribution in the Field of Education on 12.09.2015 by Rotary Club of Sonipat Midtown.
- 8.9 Awarded the '**Best Paper Award**' in Int. Conf. on Globalization & Competitiveness in Business & Tech. held w.e.f. 20 to 22.9.2019 at Avanti Palms Conf. Centre, Orlando, Florida, USA, sponsored by Univ. of Maryland Eastern Shore, USA & Frostburg State Univ., USA. Paper titled as "Estimating Equivalent Circuit Parameters of an Induction Motor Using Chaos Embedded Firefly Algorithm".

## 9. TEACHING EXPERIENCE AT UNIVERSITY / ENGG. COLLEGES; INDUSTRIAL EXPERIENCE & COURSES TAUGHT:

- **Industrial Experience:** A couple of months at D.C.M. Engg. Products, Ropar (Punjab);
- **Total Teaching experience: Approx. 35 years** (at G.N. Engg. College, Ludhiana; Punjab Engg. College, Chandigarh; TTTI (now NITTTR), Chandigarh; R.E.C. (now N.I.T.), Hamirpur and C.R. State College of Engg., Murthal, Sonipat (now upgraded to D.C.R. Univ. of Sci. & Tech.) out of which **12 years ¾ months** as Assistant Professor (now termed as Associate Professor) & since 9.9.2003 till 30.4.2021 as Professor (approx. **18 yrs.**). Experience as **Chairman / Head of Dept. = approx. 15 yrs. & as Dean = approx. 5 years.**
- **Courses Taught:** Taught about 27 different Engg. courses (including 5 M.Tech. courses & 1 Ph.D. course): 1) Genetic Algorithms & Applications, 2) Linear Systems Theory, 3) Modern Control Systems, 4) Control Engg.-I, 5) Control Engg.-II, 6) Advanced Control Systems, 7) Discrete Data Systems & Control, 8) Electron Devices, 9) Power Electronics, 10) Electrical Machines-I, 11) Electrical Machines-II, 12) Electrical Technology, 13) Electrical Measurements & Measuring Instruments, 14) Advanced Instrumentation, 15) Electrical Technology, 16) Power Systems-I, 17) Fuzzy Control Theory, 18) Artificial Intelligence Applications to Power Systems, 19) Principles of Electrical Engg., 20) Electrical Engg. Materials, 21) Fuzzy Control Systems, 22) Microprocessor (8085), Interfacing & Applications, 23) Advanced Microprocessors, 24) Control Systems Engg., 25) Process Control, 26) Research Methodology & IPR, 27) Intelligent Instrumentation, etc.

**Table-1:**

| S. No. | Name of Univ./ College                   | Designation                | Pay Scale & Last Basic Pay       | Nature of Post – Temporary / Permanent | Brief description of duties & classes Taught                                |                 | Period (dates)   | Length of Experience |        |
|--------|--|----------------------------|----------------------------------|--|---|-----------------|--|----------------------|--------|
|        |  |                            |                                  |  | UG (B.Tech.)  | M.Tech. & Ph.D. |  | Years                | Months |
| 1.     | G.N.Engg.Coll<br>ege, Ludhiana<br>(Pb.)  | Engg.<br>Demonst-<br>rator | 700-<br>1200;<br>LBP:<br>775/=   | i) adhoc<br>ii)<br>regular             | 3 theory &<br>3 Prac.<br>Classes  | -               | i) 8.8.83<br>to<br>21.11.83<br>ii)<br>23.1.84<br>to 4.1.85 | 1                    | 3      |
| 2.     | D.C.M. Engg.<br>Products,<br>Ropar (Pb.) | Apprentic<br>e<br>Engineer | 1000-<br>1600;<br>LBP:<br>1000/= | Permane<br>nt                          | Industrial<br>Experience<br>on Arc &<br>Induction<br>furnaces &<br>Controls | -               | 7.1.85 to<br>16.3.85                                       | -                    | 2¼     |
| 3.     | Pb. Engg.<br>College,<br>Chandigarh      | Teaching<br>Assistant      | Consoli-<br>dated<br>1600/=      | Adhoc                                  | 3 theory &<br>2 Prac.<br>Classes  | -               | 15.3.85<br>to 4.5.86                                       | 1                    | 1½     |
| 4.     | T.T.T.I., (Now                           | Project                    | Consoli-                         | Tenure                                 | Developed   | -               | 21.5.86  | -                    | 4½     |

|    |  |                        |                                  |               |  |                              |                                    |   |      |
|----|--|------------------------|----------------------------------|---------------|--|------------------------------|------------------------------------|---|------|
|    | NITTTTR)<br>Chandigarh                         | Associate              | dated<br>1600/=                  |               | Experiment<br>al kits,<br>instruction<br>sheets &<br>delivered<br>lectures in 3<br>STTPs   |                              | to<br>30.9.86                      |   |      |
| 5. | R.E.C. (now<br>N.I.T.),<br>Hamirpur<br>(H.P.)  | Lecturer               | 2200-<br>4000;<br>LBP:<br>2500/= | Permane<br>nt | Taught 4<br>theory & 4<br>Prac.<br>classes,<br>Minor &<br>Major<br>projects;<br>guided 1<br>Dissertation<br>; Massive<br>Lab<br>Establishme<br>nt & Co-<br>curriculars   | -                            | 6.10.86<br>to<br>17.8.91<br>(F.N.) | 4 | 10 ½ |
| 6. | -do-   | Assistant<br>Professor | 3700-<br>5700;<br>LBP:<br>4075/= | -do-          | Took 5<br>theory & 4<br>Prac.<br>classes,<br>Minor &<br>Major<br>projects;<br>guided 1<br>Dissertation<br>; Placement,<br>Massive<br>Lab<br>Establishme<br>nt & Co-<br>curriculars,<br>Secy. ISTE<br>Chap.,<br>conducted<br>STTPs,<br>Warden,<br>Chief<br>Warden | Disser-<br>tations<br>guided | 17.8.91<br>(A.N.) to<br>14.9.95    | 4 | 1    |
| 7. | C.R. State<br>College of<br>Engg.,<br>Murthal, | Assistant<br>Professor | 3700-<br>5700/-<br>revised<br>to | -do-          | Head w.e.f.<br>2000; 4<br>theory & 4<br>Prac.  | Theory<br>class              | 15.9.95<br>8.9.03                  | 7 | 11¾  |

|    |   |   |  |         |  |   |   |    |                    |
|----|---|---|--|---------|--|---|---|----|--------------------|
|    | Sonipat (Haryana)   |   | 12000-18300; LBP: 17880/=  |         | classes, Minor & Major Projects;   |   |   |    |                    |
| 8. | -do-  | Professor   | 16400-450-20900-500-22400/= ; LBP: 19550/=   | -do-    | Theory & Prac. Classes; Research; Sr. Warden; Coordinator Store, Purchase & Projects,  | Theory & Prac. Classes & M.Tech . dissertations | 9.9.03 (Under CAS) to 5.11.06                               | 3  | 2                  |
| 9. | DCR Univ. of Sci. & Tech., Murthal, Sonipat (A State Govt. Univ.) | Professor (with additional duty w.e.f. 8.4.11 to 1.8.14 as Dean of about 30 Colleges) & Dean Faculty of Engg. & Tech. for 3 yrs | 37400-67000: Pay Band-IV + AGP 10,000/=; Level-14 LBP on 30.4.2021: Rs. 2,18,200/= | -do-    | Theory & Prac. Classes; Research; Chairman of multiple Depts.; Dean of Colleges; Chief Warden; Dean Faculty of Engg. & Tech., Dean Faculty of I.T. & C.S.; Nodal Officer (TEQIP), Nodal Officer (procurements) | Theory & Prac. Classes & M.Tech . & Ph.D.       | 6.11.06 (21.10.2008 under Direct recruitment) to 30.4.2021. | 14 | 5                  |
| 10 | The NorthCap Univ., Gurgaon.                                      | Honorary Adjunct Professor  | Lumpsu m on Lecture basis  | Adjunct | Theory & Prac. Classes;  | Mentoring faculty, research scholars            | 3.2.2022 to 14.4.2022                                       |    | 1.5 months approx. |
| 11 | Panipat Institute of Engg. & Tech., Panipat                       | Prof. ECE & Dean Engg.  | As per Scale   | Regular | Policy Planning, Administration,   | Guiding re-search Scho-                         | 29.9.2022 to 20.5.2022                                      |    | 8 months           |

|  |   |          |                 |         |  |   |                            |  |                   |
|--|---|----------|-----------------|---------|--|---|----------------------------|--|-------------------|
|  |   |          |                 |         | Training,<br>Teaching  | lars                                      |                            |  |                   |
| 12   | Panipat<br>Institute of<br>Engg. &Tech.,<br>Panipat | Director | As per<br>Scale | Regular | Policy<br>Planning,<br>Administraction,<br>Training,<br>Teaching | Guiding<br>re-<br>search<br>Scho-<br>lars | 21.5.202<br>2 to<br>contd. |  | ...<br>month<br>s |
| Total experience as on date: <b>approx. 37 years</b> out of which 12 years & $\frac{3}{4}$ months as Assistant Professor & about <b>18 yrs. as Professor</b> ; & approx. <b>15 yrs. as Head / Chairman &amp; approx. 5 yrs. as Dean.</b> |   |          |                 |         |  |   |                            |  |                   |

### 10. (A) Guided Ph.D. & M.Tech. Students:

Guided 10 Ph.D. Scholars:

| S. no. | Name of the Research Scholar            | Univ. awarding the Ph.D. Degree | Yr. of regn. & of award of Degree                            | Topic  |
|--------|---|---------------------------------|--|--|
| 1.     | Satvir Singh                            | M.D.U.,<br>Rohtak               | 2005-4.4.2011  | Investigations in Evolution of Type-1 and Type-2 Fuzzy Systems                       |
| 2.     | Pawan Kumar                             | M.D.U.,<br>Rohtak               | 2006-4.4.2011  | Recent Trends in Evolutionary Computing.   |
| 3.     | Anil Kumar                              | N.I.T.,<br>Jalandhar            | 2008-29.8.2013   | Optimized Localization in Wireless Sensor Networks.                                  |
| 4.     | Mrs. Sanju Saini                        | DCRUST,<br>Murthal              | 2009- 20.7. 2016.  | Chaos in Electrical & Electronic Systems   |
| 5.     | Rajneesh Pawar                          | DCRUST,<br>Murthal              | 2009 – 19.7. 2016.   | Mathematical Foundations & Analytical Structures for Genetic Algorithms              |
| 6.     | Rohtash                                 | DCRUST,<br>Murthal              | 2009 – 2.6.2016.   | Intelligent Techniques in Signal Processing  |
| 7.     | Vijay Ghial                             | NIT,<br>Kurukshetra             | 26 Feb. 2007<br>Submitted in Feb.<br>2014<br>Awarded in 2017 | Performance Prediction of Permanent-Split Capacitor-Run Single-Phase Induction Motor |
| 8.     | Mrs. Poonam (Regd. No. 129021002)       | DCRUST,<br>Murthal              | Regd. on 03.01.14;<br>Awarded on<br>16.11.2018.              | Investigations in Computational Neuroscience   |
| 9.     | Mrs. Seema Chawla (Regd. No. 129021008) | DCRUST,<br>Murthal              | Regd. on 03.01.14;<br>Awarded on<br>19.4.2021.               | Investigations on Emerging Techniques for physiological Systems                      |
| 10.    | Akhlesh Kumar (Regd. No.                | DCRUST,<br>Murthal              | Regd. on 17.01.14;<br>Awarded on<br>19.7.2021.               | Recent Investigations in Robotics Surgery  |

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**(B) Conducted Ph.D. viva-voce exams. of & / or Evaluated Ph.D. Thesis of:**

1. Ms. Sheilza of ECED, YMCA Univ. of Sci. & Tech., Fbd. On 7.2.14 on the Topic Control Issues in Nanotechnology (Regd. Under M.D.U., Rohtak); Supervisor: Dr. Akhilesh Swarup, Prof. EED, NIT, Kurukshetra.
2. Mr. Vikram Kumar of D.A.V. Univ., Jalandhar (Pb.) on 17.4.2017 under P.T.U., Kapurthala; Supervisor: Dr. (Mrs.) S.K. Bath, Prof. EED, GEC, Bathinda.
3. Mr. Rahul Kumar of ECED, D.T.U., Delhi on 12.6.2020 online on the topic, “Multiple Power Quality Events”, Supervisors: Dr. Rajiv Kapoor & Dr. M.M. Tripathy.
4. Ms. Sangeeta Gupta of Delhi Univ., N. Delhi evaluated on 27.9.2021 on the topic, “Applications of Fractional Systems in Signal Processing & Control”. Supervisors: Dr. Pragya Varshney & Dr. Smriti Srivastava, Prof. NSIT, N.Delhi.
5. Mr. Vishal Srivastava on 27.1.2022 online on the topic “Soft Computing Techniques for Modeling and Control of Nonlinear Systems”, Supervisor: Dr. Samriti Srivastava, Prof., NSUT.
6. Mr. .. on the topic “..”, Supervisor: Dr. Rekha, Prof., ....
7. Miss Neha Bhatt, Mr. .. on the topic “..”, Supervisor: Dr. ???, Prof., EED, CoE, G.B. Pantnagar Univ., Pantnagar.

(C) Mentored 1 M.S. Thesis for Scholar of BITS, Pilani; & Guided about 50 M.Tech. Dissertations (pls. see Annexure-I)  
Outcome of most dissertations / theses is reflected in papers published in peer-reviewed, indexed journals and IEEE & other reputed confs.

## 11. RESEARCH CONTRIBUTIONS &amp; BOOKS / MONOGRAPHS:

**A) GIST OF RESEARCH CONTRIBUTIONS:**

- **IEEE Journal Publications:** (a) Demonstrated the use of qualitative causal knowledge in real-time fuzzy controllers. Put forth fresh perspectives on scaling of variables & incorporation of performance criteria. (b) **Put FORTH A BREAKTHROUGH RESULT (FUNDAMENTALLY NEW CONCEPT)**– that of Computed Complex Voltage Ratio for Single Phase Induction Motor.
- **Discovery of chaos in Fuzzy Logic Controllers – A FUNDAMENTALLY NEW RESULT** (revealed thro’ fractal structure, computing its non-integer dimension).
- Developed a Self-tuning Fuzzy Logic Controller (FLC), generalizing against a broad range of Set Point Changes, parametric & load disturbances, for non-linear processes.
- Derived analytical structures of FLCs with generalized membership function having variable Cross Point (CP), advancing fresh perspectives on scaling & denormalization, & no impact of certain CP variations.
- Proposed some modifications to canonical Genetic Algorithm (GA)-operators, contributed an alternative to Schemata Count, developed GA-based PID tuner & GA-based FLC tuner, the former won ‘**CERTIFICATE OF MERIT**’ by **Institution of Engineers (India)**.

- Proposed an annealing function for step size for mutation of GA chromosomes, & developed co-evolving GAs for design of adaptive optimal FLC.
- Developed a Self-regulating Fuzzy PID Controller for which awarded the SYSTEMS SOCIETY OF INDIA'S **HIGH QUALITY PRESENTATION AWARD**.
- Awarded Best Paper Award at an Int. Conf. at Orlando, USA.

**B) Referee / Reviewer of (i) IEEE Journals, (ii) Elsevier Journals (iii) Springer Journals, (iv) IEEE Confs. (v) Arabian Journal of Sci. & Engg. (vi) Complexity Journal, Hindawi, (vii) Several Int. & National Confs.**

**C) DETAILS OF PUBLICATIONS:**

i) PAPERS PUBLISHED / ACCEPTED IN REVIEWED JOURNALS:

| Sr. No | Author, Co-author(s)              | Title of Paper  | Name of Journal   | Month, Yr.                      | Page Nos. | Impact Factor                          |
|--------|-----------------------------------|---|---|---------------------------------|-----------|--|
|        |                                   |   |   | or State of Publication         |           |  |
| 1.     | J.S. Saini, Y.P. Singh            | Use Of Causal Knowledge in a Real-Time Fuzzy Logic Controller                           | <b>IEEE Transactions on Industrial Applications</b> , vol.35, no.3.   | May / June 1999.                | 554-560.  | 1.901                                  |
| 2.     | J.S. Saini, R.Jha, Y.P.Singh      | Use of Rule-Based Paradigm and Causal Knowledge in Self-Regulating Fuzzy PID Controller | Journal of Systems Science & Engineering, vol.1, no.1   | 1993                            | 40-52     | Not Available (very old journal)       |
| 3.     | J.S. Saini, A.Sharma R. Thakur    | Software Interfaces for Instrumentation   | Journal of the Instrument Society of India, vol. 23, no. 3-4.   | 1993                            | 158-165   | Doesn't exist (very old journal)       |
| 4.     | J.S. Saini, M. Gopal, A.P. Mittal | Evolving Optimal Fuzzy Logic Controllers by Genetic Algorithms                          | <b>IETE Journal of Research</b>   | May / June 2004, vol. 50, no. 3 | 179-190   | 0.284                                  |
| 5.     | J.S. Saini, M. Gopal, A.P. Mittal | Genetic Algorithm Based PID Tuner   | Journal of Institution of Engineers (India): Electrical Engg. Divn. This paper <b>Awarded 'CERTIFICATE OF MERIT' by</b> | vol. 85, Mar. 2005              | 216-221   | Doesn't exist (being very old journal) |



|     |                                       |   | <b>Institution of Engineers (India)</b>   |  |           |                                  |
|-----|---------------------------------------|---|---|--|-----------|----------------------------------|
| 6.  | A.Kumar, R.Chandel, J.S. Saini        | Enhancement of Placement Activities in Remotely Located Technical Institutes              | The Indian Journal of Technical Edu. (Sponsor: MHRD, DoE, GOI in collaboration with Canada-India Institutional Cooperation Project)                                     | Vol.17, no.3, July-Sept., 1994   | 32-36     | Not Available (very old journal) |
| 7.  | Rajneesh Pawar, J.S. Saini            | Towards Generalized Expression for Schemata Count   | Applied Soft Computing, Elsevier Journal (SCI Journal, impact factor 2.857)   | 11 (2011), DOI info.: 10.1016/j.asoc.2010.07.012                             | 2134-2141 | 6.725                            |
| 8.  | Satvir Singh, J.S. Saini, Arun Khosla | Interval Type-2 Fuzzy System For Autonomous Navigational Control Of Non-Holonomic Vehicle | International Journal of Information Technology and Knowledge Management  | Jan-June 2012, Vol. 5, No. 1,  | 195-200   | Doesn't exist                    |
| 9.  | Rohtash Dhiman, Priyanka, J.S Saini   | Wavelet Based Approach For Removal Of Ocular Artifact From EEG Recordings                 | Review of Business and Technology Research, Vol.5, no.1, ISSN 1941-9414   | 2012   | 480-485   | Not Available                    |
| 10. | J.S. Saini                            | Modern Optimization Techniques  | GGGI Journal of Engineering & Technology, Volume 1, Issue 2; ISSN 2278-1226   | July-Dec. 2012   | 11-16     | Doesn't exist                    |
| 11. | Rohtash Dhiman, Priyanka, J. S. Saini | Wavelet Analysis of Electrical Signals from Brain: The Electroencephalogram               | Quality, Reliability, Security & Robustness in Heterogeneous Networks, Lecture Notes of Institute for Computer Sciences, Social Informatics & Telecommunications Engg., | Vol. 115, 2013; Print ISBN 978-3-642-37948-2; Online ISBN 978-3-642-37949-9; | 283-289   | 10.1007/978-3-642-37949-9_24.    |

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|     |  |  | <a href="http://link.springer.com/chapter/10.1007/978-3-642-37949-9_24">http://link.springer.com / chapter / 10.1007/978-3-642-37949-9_24.</a> |  |   |  |
| 12. | Vijay Ghial,<br>L.M. Saini,<br>J.S. Saini  | Parameters Estimation of Permanent Split Capacitor Run Single Phase Induction Motor Using Computed Complex Voltage Ratio | <b>IEEE Transactions on Industrial Electronics, vol. 61, no. 2.</b><br><br>(Accepted on <b>14.1.2013</b> )                                     | Feb. 2014  | 682-692                                 | <b><u>6.383</u></b>                                  |
| 13. | Vijay Ghial,<br>L.M. Saini,<br>J.S. Saini  | Performance Prediction of Energy Efficient Permanent Split Capacitor Run Single Phase Induction Motor                    | Journal of Electrical Engineering. Vol. 14, No. 3; Accepted on 18.12.2013  | Sept. 2014   | Pgs. 212-221                            | 0.967 (2012) by Global Institute for Scientific Info |
| 14. | Rohtash Dhiman,<br>J.S. Saini,<br>Priyanka | Genetic Algorithms Tuned Expert Model for Detection of Epileptic Seizures from EEG Signatures                            | Applied Soft Computing; Elsevier Journal (SCI Journal, impact factor 2.857)  | <i>Vol.19, June 2014</i>                                   | 8-17                                    | 2.857  |
| 15. | Sanju Saini, J.S. Saini                    | Chaos embedded optimization algorithms state of the art  | International Journal of Elect. & Commn. Technology  | Vol. 5, issue 4, Dec. 2014.                                | ISSN-P 2230- 9543<br>ISSN -e 2230-7109. | Scientific Journal IF – 3.871 (2013)                 |
| 16. | J.S. Saini & Vishal Jain.                  | A Genetic Algorithm Optimised Fuzzy Logic Controller for Automatic Generation Control for Single Area System             | Journal of The Institution of Engineers (India): Series B (from IE in association with Springer) Vol. 96 , Issue 1                             | January– March 2015, 96(1), DOI:10.1007/s40031-014-0102-3. | 1-8                                     | Doesn't exist  |
| 17. | Anil Kumar,<br>Arun Khosla,                | Range-Free 3D Node Localization in Anisotropic   | Applied Soft Computing, Elsevier Journal (SCI Journal,   | 25.5.2015  | 438–448                                 | 2.857  |

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|-----|--|---|---|--|-------------------------|-------------------------------------|
|     | J.S. Saini,<br>Satvir<br>Singh                 | Wireless Sensor<br>Networks   | impact factor<br>2.675); 34 (2015)  |  |                         |                                     |
| 18. | Rajneesh<br>Pawar,<br>J. S. Saini              | Schemata<br>Tutorial  | Journal of Multi-<br>Disciplinary<br>Engineering<br>Technologies  | Vol. 9,<br>Issue-2,<br>July-Dec.<br>2015 | ISSN:<br>0974 –<br>1771 | Global Impact<br>Factor - 0.565     |
| 19. | Rajneesh<br>Pawar,<br>J. S. Saini              | Impact of Unique<br>Schemata Count<br>on the fitness<br>value in Genetic<br>Algorithms                                  | Journal of Multi-<br>Disciplinary<br>Engineering<br>Technologies  | Vol. 9,<br>Issue-2,<br>July-Dec.<br>2015 | ISSN:<br>0974 –<br>1771 | Global Impact<br>Factor - 0.565     |
| 20. | Sanju<br>Saini, J.S.<br>Saini                  | Chaotic<br>Characterization<br>and Forecasting<br>of Electric Load<br>Demand Time<br>Series.                            | The IUP Journal of<br>Electrical &<br>Electronics<br>Engineering  | Vol. IX, no.3<br>July, 2016.             | ISSN:<br>0974 –<br>1704 | Doesn't exist                       |
| 21. | Sanju<br>Saini, J.S.<br>Saini                  | Short Term Load<br>Forecasting using<br>Chaos Theory &<br>ANFIS   | Journal of Trends<br>in Electrical<br>Engineering; ISSN<br>(online): 2249 –<br>4774, ISSN (Print):<br>2321 – 4260       | Vol. 6, no.2<br>2016,                    | PP. 50 -57,             | Scientific<br>Journal IF –<br>4.135 |
| 22. | Rohtash<br>Dhiman,<br>Priyanka,<br>J.S. Saini  | Multiresolution<br>Analysis and<br>Classification of<br>Motor Imagery<br>from EEG<br>Signatures                         | Journal of Global<br>Information on<br>Technology<br>Management,<br>(USA); vol. 11,<br>No. 1 & 2, 2016,<br>SCI-Indexed. | 2016                                     | 1-7                     | 0.75                                |
| 23. | Rohtash<br>Dhiman,<br>J. S. Saini,<br>Priyanka | Biogeography<br>Based Hybrid<br>Scheme for<br>Automatic<br>Detection of<br>Epileptic Seizures<br>from EEG<br>Signatures | Applied Soft<br>Computing (SCI<br>Journal) 51(2017)<br>(Elsevier )  | 2017                                     | 116-129                 | 6.725                               |
| 24. | Rohtash<br>Dhiman,<br>Priyanka,<br>J. S. Saini | Motor Imagery<br>Classification<br>From Human<br>EEG Signatures   | International<br>Journal of<br>Biomedical<br>Engineering &<br>Technology<br>(Inderscience); vol.<br>26, no.1            | 2018                                     | Pp. 101-<br>110         |                                     |

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| 25. | Poonam Sheoran, J.S. Saini                              | Electroencephalogram denoising Using Independent Component Analysis & Variational Mode Decomposition  | International Journal of Electronics, Electrical & Computational System  | Vol. 7, Issue 3, Mar. 2018          | ISSN 2348-117X. Page nos.??                 | Impact Factor??                          |
| 26. | Seema Chawla, Jasbir Singh Saini, Sanjeev Kumar         | Haptics – Principles and Applications   | Journal of Advancements in Robotics, vol. 5(3)   | 2018                                | 33-39                                       | ISSN: 2455-1872                          |
| 27. | J.S. Saini, Sanju Saini                                 | Estimating Equivalent Circuit Parameters of an Induction Motor Using Chaos Embedded Firefly Algorithm | Review of Business and Technology Research.  | Vol. 16, no.1, 2019; ISSN 1941-9414 | 1-10 ??                                     | ??                                       |
| 28. | Poonam Sheoran, J.S. Saini                              | Time-Time Analysis of Electroencephalogram Signals for Epileptic Seizure Detection                    | Inderscience: International Journal of Biomedical Engg. & Tech., vol. 30, issue 2  | 2019                                | 113-131                                     | ISSN online: 1752-6426; Print: 1752-6418 |
| 29. | Akhlesh K., Sanjeev K., A. Kaushik, Amod K., J.S. Saini | Real Time Estimation and Suppression of Hand Tremor For Surgical Robotic Applications                 | Microsystem Technologies; D.O.I. 10.1007/s00542-019-04736-1 published online by Springer on 10 Jan. 2020. (An SCI-indexed journal of <b>Springer</b> ) | ISSN: 0946-7076; Jan. 10, 2020      | 7 pgs. Yet to be allotted for print version | 1.610                                    |
| 30. | Poonam Sheoran, J.S. Saini                              | New Method for Automatic Electro-oculogram and Eye Blink Artifacts Correction of                      | Procedia Computer Science, vol. 167, 2020. An Elsevier Journal   | Vol. 167, 2020                      | ISSN ?? Pgs. 1761-1770                      | Impact Factor??                          |

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| 31. | Poonam Sheoran, J.S. Saini | Optimizing Channel Selection Using FODPSO For BCI Applications  | <b>Taylor &amp; Francis Journal: Brain-Computer Interfaces, Vol. 9, Issue 1 (2022)</b>             | 2022                                 | <a href="https://doi.org/10.1080/2326263X.2021.1966985">https://doi.org/10.1080/2326263X.2021.1966985</a> |  |
| 32. | Poonam Sheoran, J.S. Saini | Automated Blink Artifact Removal from EEG Using Variational Mode Decomposition and Singular Spectrum Anaysis. | International Journal of Biomedical Engg. & Tech. (Inderscience); <b>Vol. 36, No. 1</b> , pp 64-78 | June,2021                            |   | ISSN online: 1752-6426; Print: 1752-6418 |
| 33. | Seema, J.S. Saini          | Master slave configuration in robotic surgery through image processing  | Int. J. Biomedical Engineering and Technology (Inderscience); Vol. X, No. Y, xxxx 1.               | Accepted; Proof reading in Dec. 2021 |   |  |

**ii) PAPERS PRESENTED / PUBLISHED IN SEMINAR / CONFERENCE PROCEEDINGS:**

| S. No. | Author, Co-author(s)               | Title of Paper  | Conference   | Month, Yr.        | Organizers                        | Page Nos. |
|--------|------------------------------------|---|--|-------------------|-----------------------------------|-----------|
| 1.     | J.S Saini, Y.P. Singh, S.S. Lamba  | Fuzzy Rule-Based Expert Direct Digital Control                                | <b>International Conf.</b> on Automation, Robotics & Computer Vision | Sept. 18-21, 1990 | IE & IEEE Singapore Section       | IA-5-11   |
| 2.     | A. Sharma, J.S. Saini              | Organizing an Electronic Mass Production Unit.                                | Entrepreneurship Awareness   | Nov. 22-24, 91    | REC, Hamirpur, (H.P.) & DST, GOI. | 45-54     |
| 3.     | R. Jha, J.S. Saini Y.R. Sood.      | Towards Entrepreneurship Cell – A Proposal.                                   | Entrepreneurship Awareness   | Nov. 22-24, 91    | REC, Hamirpur & DST, G.O.I.       | 85-88     |
| 4.     | J.S. Saini, Y.P. Singh, S.S. Lamba | Fuzzy Rule-Based Expert Direct Digital Control Strategies for Process Control | National Conference on Real-Time Systems                             | Feb. 23-25, 91    | S.G.S.I.T.S., Indore              | 149-153   |
| 5.     | J.S. Saini                         | Concern for Optimal Performance of Solar Electric                             | Workshop on Design, Erection & Maintenance of Solar Photo-voltaic    | 8.3.92            | REC, Hamirpur (H.P.) & DST        |           |

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|     |   | Generator Systems.  | Systems   |                    | (H.P.)                             |                 |
| 6.  | J.S. Saini,<br>Y.P. Singh               | Qualitative Reasoning in Rule-Based Expert Control                                      | National Seminar Workshop on System Design & Simulation (SYDSIM-92)   | Apr.30-May 2, 1992 | Faculty of Engg., D.E.I., Agra     | SQ-1            |
| 7.  | J.S. Saini                              | Digital Fault Detection System for Solar Water Heating System.                          | Workshop on Solar Technology  | 18.3.93 to 19.3.93 | STBU of IREP, REC, Hamirpur (H.P.) |                 |
| 8.  | J.S. Saini,<br>R.Jha,<br>Y.P.Singh      | Use of Rule-Based Paradigm and Causal Knowledge in Self-Regulating Fuzzy PID Controller | National Systems Conference<br><b>(This paper was awarded HIGH QUALITY PRESENTATION AWARD by Systems Society of India.)</b> | Feb.17-19, 93      | Anna Univ., Madras                 | 370-375         |
| 9.  | J.S. Saini,<br>A.Sharma,<br>R.Thakur    | Software interfaces for instrumentation   | National Symposium on Instrumentation (NSI-18)  | Jan. 9-12, 1994    | S.V. Univ., Tirupati               |                 |
| 10. | J.S. Saini,<br>A.Chandel                | Energy Scenario in Northern India   | National Seminar on Power Scenario in India   | Oct. 14-15, 1995   | REC, Hamirpur, (H.P.)              | A.1-A.6         |
| 11. | A.Sharma,<br>J.S. Saini,<br>R.K. Sinha  | Design & Development of PC-Based Optical Scanner for Character Recognition              | XXII OSI Symposium on Optical & Opto-Electronic Instrumentation & Optoelectronics   | Mar. 29-31, 95.    | CSIO, Chandigarh                   | IX-A-5          |
| 12. | J.S Saini,<br>Y.P. Singh                | Use of Causal Knowledge in a Real-Time Fuzzy Logic Controller                           | <b>IEEE / IAS Int. Conf.</b> on Industrial Automation & Control held at Hyderabad   | Jan. 5-7, 95       | <b>IEEE / IAS</b>                  | 101-108         |
| 13. | J.S. Saini                              | Fuzzy Logic Makes In-roads Into Drives  | National Seminar on 'Efficient Use of Motors, Generators & Drives in Industries & Utilities for Energy saving'.             | Feb.16, 1997       | IE(I) Hr. Centre & CRSCE, Murthal  | 308-314         |
| 14. | J.S. Saini,<br>M. Gopal,<br>A.P. Mittal | Analytical Structures for Fuzzy Controllers   | <b>Int. Conf.</b> on Control, Instmn. & Info. Communication (CIIC-01)   | Dec. 13-15, 2001.  | Univ. of Calcutta, Kolkata.        | 389-394         |
| 15. | J.S. Saini,<br>M. Gopal,<br>A.P. Mittal | Chaotic Dynamics in Fuzzy Logic Controllers   | <b>Int. Conf.</b> on Quality, Reliability & Control (ICQRC-01)  | Dec. 26-28, 2001   | I.I.T., Mumbai                     | C14_1-<br>C14_6 |
| 16. | J.S. Saini,<br>M. Gopal,                | A Robust Structure for Self-tuning FLC  | <b>Int. Conf.</b> on Quality, Reliability & Control   | Dec. 26-28,        | I.I.T., Mumbai                     | C33_1-<br>C33_6 |

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|     | A.P. Mittal  | Employing State Feedback   | (ICQRC-01)  | 2001              |   |   |
| 17. | J.S. Saini,<br>M. Gopal,<br>A.P. Mittal                            | An Alternative to Schemata Count for Genetic Algorithms            | <b>All-India Seminar on Power &amp; Energy for Sustainable Growth (PESG-2003)</b>             | Feb. 20-21, 03    | IE(I) Hr. Centre & CRSCE, Murthal         | 41-48   |
| 18. | R. Dhiman,<br>J.S. Saini,<br>A.P. Mittal,<br>M. Gopal              | Evolution & Applications of Genetic Algorithms – State of the Art  | <b>International Conf. on Quality, Reliability &amp; Information Technology (ICQRIT-2003)</b> | Dec. 18-20, 2003. | I.N.S.A., New Delhi.                      | OIT-25:72   |
| 19. | J.S. Saini,<br>M. Gopal,<br>A.P. Mittal                            | Adaptive Evolutionary Tuner for Adaptive Fuzzy Logic Controller    | <b>IEEE-IAS &amp; PES sponsored 'International. Conf.', at N. Delhi</b>                       | Nov. 9-10, 2004   | IEEE                                      | 99-107  |
| 20. | J.S. Saini,<br>M. Gopal,<br>A.P. Mittal                            | Coping With Input Data Uncertainty For Fuzzy Logic Controllers     | <b>IEEE-IAS &amp; PES sponsored 'International. Conf.', at N.Delhi</b>                        | Nov. 9-10, 2004   | IEEE                                      | 1-8   |
| 21. | J.S. Saini,<br>M. Gopal,<br>A.P. Mittal,<br>R. Pawar,<br>S. Sharma | A New Technique for Schemata Count of Genetic Algorithms           | <b>Asian Conf. on Intelligent Systems &amp; Networks</b>                                      | Feb. 24-25, 06    | CAT, HEC, Jagadhri                        | 37-44   |
| 22. | Pawan Dahiya & J.S. Saini  | Hardware Based Biologically Inspired Processor: A State of the Art | <b>Asian Conf. on Intelligent Systems &amp; Networks</b>                                      | Feb. 24-25, 06    | CAT, HEC, Jagadhri                        | 383-390   |
| 23. | Satvir Singh & J.S. Saini  | Captive Power Management using Op-Amp Based Fuzzy Controller       | <b>Asian Conf. on Intelligent Systems &amp; Networks</b>                                      | Feb. 24-25, 06    | CAT, HEC, Jagadhri                        | 160-166   |
| 24. | Satvir Singh & J.S. Saini  | Fuzzy FPGA Based Captive Power Management                          | <b>IEEE Power India Conf.</b>   | Apr.10-12, 2006   | <b>IEEE PES &amp; IAS (IEEE Xplore)</b>   | Digital Object Identifier: 10.1109/POWER.2006.1632554 |
| 25. | Pawan Dahiya,<br>J.S. Saini,<br>Shakti Kr.                         | Evolutionary Trends in VLSI Design                                 | <b>International Conf. on Intelligent Systems &amp; Networks (IISN-2007).</b>                 | Feb. 23-25, 2007  | Computational Intelligence Lab, Jagadhari | 20-25   |
| 26. | Prachi,<br>Pawan,<br>Hole, &<br>J.S. Saini                         | Optimization of Parameters of Digital Filter Using Gas             | <b>International Conf. on Intelligent Systems &amp; Networks IISN-2007.</b>                   | Feb. 23-25, 2007  | Computational Intelligence Lab, Jagadhari | 590-594   |

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| 27. | Anil K.,<br>J.S. Saini,<br>S. Kumar   | A Tutorial on<br>Reinforcement<br>Learning  | National Workshop on<br>Intelligent Systems (IS-<br>2007) (ISTE-sponsored)   | July 2-6,<br>2007       | HCE, Sonipat  | 25-35   |
| 28. | J.S. Saini  | Genetic Algorithms  | Proceedings of TEQIP-<br>sponsored one week<br>National Workshop on<br>Intelligent Systems &<br>Mobile Adhoc Networks<br>(ISMANET-07)  | 10-14<br>Dec.,<br>2007  | DCRUST,<br>Murthal,<br>Sonipat                            | 8-18    |
| 29. | Pawan<br>Dahiya, P.<br>Chaudhary,<br>J.S. Saini,<br>Shakti Kr.                      | Intelligent Systems:<br>Features,<br>Challenges,<br>Techniques,<br>Applications, &<br>Future Scopes | Proceedings of TEQIP-<br>sponsored one week<br>National Workshop on<br>Intelligent Systems &<br>Mobile Adhoc Networks<br>(ISMANET-07)  | 10-14<br>Dec.,<br>2007  | DCRUST,<br>Murthal,<br>Sonipat                            | 1-7     |
| 30. | Anil<br>Kumar,<br>Arun<br>Khosla,<br>J.S. Saini,<br>Shakti Kr.                      | An Agent Based<br>Knowledge<br>Acquisition in<br>Intelligent Systems                                | Proceedings of TEQIP-<br>sponsored one week<br>National Workshop on<br>Intelligent Systems &<br>Mobile Adhoc Networks<br>(ISMANET-07)  | 10-14<br>Dec.,<br>2007  | DCRUST,<br>Murthal,<br>Sonipat                            | 25-31   |
| 31. | Pawan<br>Dahiya,<br>J.S. Saini,<br>Shakti Kr.                                       | PSO for Routing<br>problem in VLSI  | <b>International Conf.</b> on<br>Intelligent Systems &<br>Networks (ISN-2008)  | Feb. 22-<br>24, 2008    | Computational Intelligence<br>Lab, & ISTK,<br>Yamunanagar | 190-193 |
| 32. | Anil Rose,<br>J.S. Saini,<br>Anuja<br>Gupta, S.D.<br>Paliwal                        | A Frame Work for<br>Memetic Algorithm<br>Visualization<br>(MAVEL)                                   | Proc. of <b>International</b><br>Conf. on Intelligent<br>Systems & Networks<br>ISN-2008.   | Feb. 22-<br>24, 2008    | Computational Intelligence<br>Lab, & ISTK,<br>Yamunanagar | 391-393 |
| 33. | V.<br>Mutneja,<br>Satvir S.<br>Sidhu, N.<br>Gill, J.S.<br>Saini                     | Mobile Robot<br>Navigation Using<br>IT2-FLS   | <b>Proc. of IEEE National</b><br><b>conf.</b> on Applications of<br>Intelligent Systems (AIS-<br>2008) Published by Excel<br>India Publishers, N.Delhi;<br>ISBN: 978-81-906531-0-<br>7 | March<br>13-15,<br>2008 | Hindu<br>College of<br>Engg.,<br>Sonipat and<br>IEEE      | 18-23   |
| 34. | Prachi<br>Chaudhary,<br>Anil Rose,<br>Pawan<br>Dahiya,<br>J.S. Saini,<br>Shakti Kr. | Evolutionary<br>Computation in DSP<br>Design  | Proc. of <b>IEEE National</b><br>conf. on Applications of<br>Intelligent Systems (AIS-<br>2008) Published by Excel<br>India Publishers, N.Delhi;<br>ISBN: 978-81-906531-0-<br>7        | Mar. 13-<br>15, 2008    | Hindu<br>College of<br>Engg.,<br>Sonipat and<br>IEEE      | 201-207 |
| 35. | Rohtash<br>Dhiman,<br>J.S. Saini,   | Genetic Algorithm<br>Optimized<br>Resonance   | Proc. of <b>IEEE National</b><br>conf. on Applications of<br>Intelligent Systems (AIS-   | March<br>13-15,<br>2008 | Hindu<br>College of<br>Engg.,                             | 222-226 |



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|     | AP Mittal,<br>V.K Tayal   | Parameter Tuner   | 2008) Published by Excel India Publishers, N.Delhi; ISBN: 978-81-906531-0-7                                     |                        | Sonipat and IEEE  |   |
| 36. | Shakti Kr.,<br>J.S. Saini,<br>Pawan<br>Dahiya                   | Bio-inspired Computational Intelligence in DSP design                                       | <b>IEEE International Symposium on Industrial Electronics, (ISIE-2008)</b>                                      | 30 June - 2 July, 2008 | Cambridge, UK   | Accepted  |
| 37. | Anil Kr.,<br>N. Goel, A.<br>Khosla, J.<br>S. Saini &<br>S.Kumar | A well Structured Rule through Reinforcement Learning for Wireless Sensor Networks Security | <b>The International Conf. on Wireless Networks (ICWN'08), at Las Vegas, Nevada, USA</b>                        | 14-17 July 2008        | World Comp  | 41-45   |
| 38. | Juhi Singla,<br>J.S. Saini,<br>Anil Rose                        | FRMANET: A New Approach For Routing Protocol in MANET                                       | 2 <sup>nd</sup> National Conf. on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries | 26-28 Sept. 2008       |   | 399-404   |
| 39. | Shakti Kr.,<br>J.S. Saini,<br>Pawan<br>Dahiya                   | ACO for Routing in FPGA   | <b>IEEE International Conf. on Industrial Technology , (ICIT-2009)</b>  | 10-13 Feb., 2009       | Monash University, Australia                            | Accepted  |
| 40. | Rohtash<br>Dhiman,<br>J.S Saini,<br>Priyanka,<br>A.P. Mittal    | Artifact removal from EEG recordings –An overview   | National Conference on Computational Instrumentation  | 19-20 Mar., 2010       | Central Scientific Instruments Organization Chandigarh. | 62-66   |
| 41. | Vijay Pal<br>Singh,<br>Priyanka &<br>J.S. Saini                 | Technical Review of High Resolution Imaging (only Abstract published)                       | <b>Proc. of National Conference on Recent Trends in Electrical &amp; Electronics Engineering</b>                | May 14-15, 2010        | Haryana College of Technology & Management, Kaithal.    | 19  |
| 42. | Sanju<br>Saini, J.S.<br>Saini                                   | Nonlinear Electronic Networks and Chaos   | National Conference on Nonlinear Dynamical systems NDS 2011   | 04-08 July 2011        | NIT Durgapur  |   |
| 43. | Sanju<br>Saini, J.S.<br>Saini                                   | Genetic optimized self-tuning fuzzy logic controller  | Accepted for 5th Chaotic Modeling & Simulation International Conference (CHAOS 2012)                            | 12-15 June, 2012       | Athens, Greece  |   |
| 44. | Kumar,<br>A.; Khosla,<br>A.; Saini, J.<br>S.; Singh, S          | Meta-Heuristic Range Based Node Localization in Wireless Sensor Networks                    | <b>IEEE International Conference on Localization and Global Navigation and Satellite Systems (ICL-GNSS);</b>    | 24-26, June 2012       | German Aerospace Center, DLR, Germany;                  | Available at <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> |

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| 46. | Sanju Saini, J.S. Saini                           | Chaotic queue-based genetic algorithm for design of a self-tuning fuzzy logic controller | Proc. of 6 <sup>th</sup> <b>Global</b> Conf. on Power Control & Optimization, AIP Conf. Proc. vol. 1499; D.O.I.: 10.1063/ 1.4768986   | Aug.6-8, 2012    | Las Vegas, U.S.A.  | 191-195  |
| 47. | Kumar, A; Khosla, A; Saini, J.S.; Singh, S        | Computational Intelligence Based Node localization in Wireless Sensor Networks           | <b>IEEE International</b> Conf. on Intelligent Systems (IEEE-IS'12); IEEE explorer - Vol. I, IEEE Catalog Number CFP12802-PRT-ISBN 978-1-4673-2782-4  | 6-8 Sep, 2012    | Sofia, Bulgaria  | 431 – 438;<br>Digital Object Identifier: 10.1109/IS.2012.6335173 |
| 48. | Anil Kumar, Arun Khosla, J.S. Saini, Satvir Singh | Stochastic Algorithms for 3D Node Localization in Anisotropic Wireless Sensor Networks   | Proc. of 7 <sup>th</sup> <b>International</b> Conf. on Bio-Inspired Computing: Theories & Applications (BIC-TA 2012), Published in Book Form: Advances in Intelligent Systems & Computing, Vol. 201, 2013, pp 1-14, Publisher: <b>Springer</b> India. Scopus-indexed. | Dec. 22-24, 2012 | Gwalior; Print ISBN 978-81-322-1037-5; D.O.I.: 10.1007/978-81-322-1038-2_1                                     | 1-14   |
| 49. | Rohtash Dhiman, Dr. Priyanka, Dr. J.S. Saini      | Wavelet Analysis of Electrical Signals from Brain – the Electroencephlograms             | Qshine 2013 - 9th International Conference on Quality, Reliability, Security & Robustness in Heterogeneous Networks   | Jan. 11-12, 2013 | Gautam Buddha Univ., Greater Noida; ICST.org; European Alliance for Innovation (EAI); <b>Springer&amp;IEEE</b> |  |

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| 50. | Atharv Sharma, J.S. Saini, Rohtash Dhiman        | BFOA-based FLC Load Frequency Control of Interconnected Power System                                       | <b>International</b> Conf. on Emerging Trends & Developments in Science, Management & Technology   | Mar. 11-12, 2013             | R.K.G. Institute of Technology, Ghaziabad  |                                       |
| 51. | Vijay Pal Singh, Priyanka & J.S. Saini           | Image Fusion and Its Performance Measures.   | Proceedings of TEQIP-sponsored <b>National</b> Conference on Contemporary Techniques & Technologies in Electronics Engineering   | Mar. 13-14, 2013             | DCRUST Murthal, Haryana and IEEE-EMBS / IMS  | 173-177                               |
| 52. | Manish Saini, J.S. Saini, Deepti Goel            | Application Module of BBO for Fingerprint Recognition  | 4 <sup>th</sup> <b>International</b> Conference on Recent Trends in Information, Telecommunication and Computing – ITC 2013,   | Aug 01-02, 2013, Chandigarh  | Presented  |                                       |
| 53. | Manish Saini, J.S. Saini, Deepti Goel            | Signal processing Techniques for the Classification of Fingerprints  | 4 <sup>th</sup> <b>International</b> Conf. on Recent Trends in Information, Telecommunication and Computing  | Aug. 01-02, 2013, Chandigarh | Presented  |                                       |
| 54. | Neha Bhatt, J.S. Saini, Seema Chawla             | Review of Mathematical Modelling for Embryonic Wound Healing - A prelude to a novel optimization algorithm | 7 <sup>th</sup> <b>International</b> Conf. on Advanced Computing & Communication Technologies; Associates: <b>INDERSCIENCE Publishers, UK, IETE</b> , Co-sponsors Computer Society Chapter <b>IEEE Delhi Section</b> | Nov. 16, 2013                | Asia Pacific Institute of Information Technology (APIIT SD), Panipat, Haryana  | ISBN: 978-93-83083-38-1; Pgs. 207-213 |
| 55. | Saini, Manish Kumar; Saini, J.S.; Neeraj         | Unspoken Words Recognition: A Review   | <b>International</b> Conference on Advances in Signal Processing & Communication-2013  | Jan 2013                     |  |                                       |
| 56. | Saini, Manish Kumar; Saini, J.S.; Sharma, Shachi | Various Mathematical and Geometrical Models For Fingerprints: A Survey                                     | <b>International</b> Conference on Advances in Signal Processing & Communication-2013  | Jan 2013                     |  |                                       |
| 57. | Saini, Manish Kumar; Saini, J.S.; Neeraj         | Performance analysis of Wavelet Transform For Unspoken Words.  | <b>IEEE International</b> Conference on Signal Processing & Communication (ICSC), 2013; Digital Object   | Dec. 12-14, 2013             | URL: <a href="http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumbe">http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumbe</a> | 256 – 260                             |

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|-----|--|---|--|------------------------------|---|-----------------------------------|
|     |  |   | Identifier:<br>10.1109/ICSPCom.2013.<br>6719793  |                              | r=6709842 :   |                                   |
| 58. | Saini,<br>Manish<br>Kumar; Sai<br>ni, J.S. ; Sh<br>arma,<br>Shachi       | Moment based<br>wavelet filter design<br>for fingerprint<br>classification  | <b>IEEE International</b><br>Conference on Signal<br>Processing &<br>Communication (ICSC),<br>2013 IEEE Explore<br>D.O.I.:10.1109/<br>ICSPCom.<br>2013.6719795 | Dec. 12-<br>14, 2013         | ISBN 978-1-<br>4799-1605-4  | 267 –<br>270                      |
| 59. | R. Dhiman,<br>Priyanka,<br>J.S. Saini                                    | Wavelet Packet<br>based features<br>extraction from<br>Electroencephalogra<br>m signal  | 3rd <b>International</b><br>Conference on<br>Biomedical Engineering<br>& Assistive Technologies<br>(BEATs-2014)  | Feb. 14-<br>15, 2014         | Organized by<br>UIET, Pb.<br>Univ.<br>Chandigarh                                  | 297-302                           |
| 60. | Poonam<br>Sheoran,<br>J.S. Saini   | Epileptic Seizure<br>Detection using PCA<br>on wavelet sub-<br>bands  | <b>International Conf.,</b><br>CONFLUENCE 2014:<br>The Next Generation<br>Information Technology<br>Summit on theme: Cloud<br>Security and Big Data            | 25-26<br>Sep.,<br>2014       | Amity<br>University<br>Uttar Pradesh,<br>Noida, India.                            | IEEE<br>Xplore<br>pp. 527-<br>532 |
| 61. | Sanju<br>Saini, J.S.<br>Saini  | Chaos embedded<br>optimization<br>algorithms: State of<br>the Art.  | <b>International</b><br>Conference on<br>Interdisciplinary<br>Research &<br>Technological<br>Development,<br>Chandigarh.                                       | 1 <sup>st</sup> Nov.<br>2014 | Chandigarh  |                                   |
| 62. | Sanju<br>Saini, J.S.<br>Saini  | Secure<br>Communication<br>Using Memristor<br>Based Chaotic<br>Circuit.   | <b>IEEE 3<sup>rd</sup>International</b><br>Conf. on Parallel,<br>Distributed & Grid<br>Computing   | 11-13<br>Dec.<br>2014        | IEEE &<br>Jaypee Univ.<br>of<br>Information<br>Technology,<br>Solan (H.P.)        |                                   |
| 63. | Sanju<br>Saini, J.S.<br>Saini  | GA optimized time<br>delayed feedback<br>control of chaos in a<br>memristor based<br>chaotic circuit.                         | <b>IEEE symposium on</b><br>Computational<br>Intelligence for<br>Engineering Solution  | Dec.<br>2014                 | IEEE,<br>Orlando<br>Florida, USA.   | 74 – 80                           |
| 64. | Vishal Jain,<br>Devender<br>Saini, K.N.<br>Dinesh<br>Babu, J.S.<br>Saini | An Intelligent GA<br>Optimized Fuzzy<br>Controller for<br>Automatic<br>Generation Control<br>for a Two Area<br>Interconnected | <b>International</b><br>Conference on Intelligent<br>Communication, Control<br>& Devices   | Apr. 2-3,<br>2016.           | Univ. of<br>Petroleum &<br>Energy<br>Studies,<br>Dehradun,<br>India &<br>Springer | Paper<br>ID: 152                  |

|     |  | System  |   |                        |   |                     |
|-----|--|---|---|------------------------|---|---------------------|
| 65. | Tejasvini,<br>R. Dhiman,<br>J.S. Saini               | Bio-mass: A<br>Renewable Source<br>of Energy  | Proc. of Manthan-2016:<br>TEQIP-II <b>National</b> Conf.<br>on Recent Trends in<br>Computing &<br>Communication<br>Technologies   | Sept. 29-<br>30, 2016  | CSED,<br>DCRUST,<br>Murthal,<br>Sonipat,<br>ISBN: 978-<br>93-86256-02-<br>7                         | 226-230             |
| 66. | Minaxi,<br>J.S. Saini,<br>R. Dhiman                  | Wind Power<br>Forecasting Scenario<br>in India  | 2017 MTMI Int. Conf. on<br>Emerging Issues in<br>Business, Technology &<br>Applied Science  | 2017                   | Modern Tech.<br>&<br>Management<br>Institute,<br>Dubai, UAE   | Pp.?                |
| 67. | Sakshi,<br>Manish K.<br>Saini, J.S.<br>Saini         | Design of Semi-<br>orthogonal Wavelet<br>for Human Ear<br>Recognition   | <b>Int.</b> Conf. on Trends in<br>Electronics & Informatics<br>(ICEI 2017)  | 2017                   | IEEE 978-1-<br>5090-4257-<br>9/17   | 1-6                 |
| 68. | Poonam<br>Sheoran,<br>J.S. Saini                     | Electroencephalogram<br>denoising Using<br>Independent<br>Component Analysis<br>& Variational Mode<br>Decomposition                         | <b>Int.</b> Conf. on Research<br>Trends in Engg., Applied<br>Sci. & Management.   | 11.3.201<br>8          | Punjab Univ.,<br>Chandigarh   | Ref.<br>CHD-<br>918 |
| 69. | Poonam<br>Sheoran,<br>J.S. Saini                     | New Method for<br>Automatic<br>Electrooculogram &<br>Eye Blink Artifacts<br>Correction of EEG<br>Signals Using CCA<br>& NAPCT               | <b>International</b><br>Conference on<br>Computational<br>Intelligence & Data<br>Sciences (ICCIDS-2019),  | 6-7 Sept.<br>2019      | Northcap<br>Univ.,<br>Gurugram<br>Haryana   |                     |
| 70. | J.S. Saini,<br>Sanju Saini                           | Estimating<br>Equivalent Circuit<br>Parameters of an<br>Induction Motor<br>Using Chaos<br>Embedded Firefly<br>Algorithm                     | 2019 MTMI Int. Conf. on<br>Globalization &<br>Competitiveness in<br>Business & Tech. at<br>Avanti Palms Conf.<br>Centre, Orlando, Florida,<br>USA. This paper was<br>awarded the <b>Best Paper<br/>Award.</b> | 20-<br>22.9.201<br>9   | Sponsored by<br>Univ. of<br>Maryland<br>Eastern<br>Shore, USA<br>& Frostburg<br>State Univ.,<br>USA |                     |
| 71. | Poonam<br>Sheoran,<br>Neeru<br>Rathee, J.S.<br>Saini | Epileptic Seizure<br>Detection using<br>Bidimensional<br>Empirical Mode<br>Decomposition and<br>Distance Metric<br>Learning on<br>Scalogram | 7 <sup>th</sup> <b>International</b> Conf.<br>on Signal Processing and<br>Integrated Networks<br>(SPIN).  | 27-28<br>Feb.,<br>2020 | ?? Uttar<br>Pradesh,<br>Noida, India.   | pp. ??              |

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|-----|--|--|--|-----------------------|--|-----|
| 72. | M. K. Saini, J. Singh Saini & R. Kumar | Coiflet Based Deblurring of Insulator Images for Remote Monitoring | 2020 IEEE 9th Power India International Conference (PIICON), SONEPAT, India, 2020. | 28 Feb.- 1 March 2020 | doi: 10.1109/PIICON49524.2020.9113053. | 1-6 |
| 73. |  |  |  |                       |  |     |

**D) List of Patents obtained or applied:** Nil

**E) List of scientific / technical Books / Monographs / Proceedings written / Edited / Under Preparation (Title, Publisher, Year of Publication and Authors)**

| S. no. | Author, Co-authors  | Year             | Title  | Publisher  |
|--------|---|------------------|--|--|
| 1.     | J.S. Saini (Editor)   | 2004             | <b>Proc. of AICTE-ISTE STTP</b> on ‘Fuzzy Control: From Analytical Foundations to Applications in Chaos in Fuzzy Logic Controllers’, at CRSCE, Murthal, Sonipat w.e.f. 2.8.04 to 14.8.04.                    | C.R. State College of Engg., Murthal, Sonipat                |
| 2.     | Dr. M. Gopal (Author)   | 2007             | Edited the book Control Systems – Principles & Design  | Tata-McGraw Hill Pub., New Delhi                             |
| 3.     | Editor-in-Chief: J.S. Saini; Editors: Pawan Dahiya, Ms. Suman & Sukhdip Sangwan | Dec. 10-14, 2007 | Proceedings of TEQIP-sponsored one week National Workshop on Intelligent Systems & Mobile Adhoc Networks (ISMANET-07) held 10.12.07- 14.12.07 at DCRUST, Murthal, Sonipat (Haryana)                          | ECE & CSE Dept. of DCRUST, Murthal, Sonipat                  |
| 4.     | Editors: J.S. Saini, Naveen Goel, Anil Kumar Rose                               | Mar. 13-15, 2008 | Proceedings of <b>IEEE</b> National Conference on Applications of Intelligent Systems (AIS-2008) held 13.03.08- 15.03.08 at Hindu College of Engg., Sonipat (Haryana) in association with IEEE               | Excel India Publishers, N. Delhi ISBN: 978-81-906531-0-7     |
| 5.     | Member, Editorial Board   | 8-9 May, 2008    | Proc. of National Conf. on Clean Technology & Cleaner Production held under TEQIP, organized by Ch.E.D., DCRUST, Murthal, Sonipat  | DCRUST, Murthal  |
| 6.     | Editor-in-Chief: J.S. Saini; Editors: D. Bhatia, P. Sheoran                     | Nov. 12-13, 2009 | Proceedings of National Workshop on Biomedical Engg. (BME-09)  | BME Dept. of DCRUST, Murthal, Sonipat                        |
| 7.     | Singh, Satvir; Khosla, Arun; and J.S.Saini                                      | 2012             | Nature-Inspired Toolbox to Design and Optimize Systems, Chapter-17 in <i>Machine Learning Algorithms for Problem Solving in Computational Applications: Intelligent Techniques</i> ; Edited by Siddhivinayak | IGI Global, Hershey, Pennsylvania, USA, 2012, Pages 273-291. |

|     |   |      |   |  |
|-----|---|------|---|--|
|     |   |      | Kulkarni, University of Ballarat, Australia;<br>ISBN 978-1-4666-1833-6 (hardcover) - ISBN<br>978-1-4666-1834-3 (ebook) –ISBN 978-1-<br>4666-1835-0 (print & perpetual access)                                   |  |
| 8.  | Singh, Satvir;<br>Saini, J.S; and<br>Khosla, Arun | 2012 | A PSO-Based Framework for Designing<br>Fuzzy Systems from Noisy Data Set,<br>Chapter-13 in <i>Machine Learning Algorithms<br/>for Problem Solving in Computational<br/>Applications: Intelligent Techniques</i> | IGI Global, Hershey,<br>Pennsylvania, USA,<br>2012, Pages 210-228.   |
| 9.  | Rohtash<br>Dhiman,<br>Priyanka, J. S.<br>Saini    | 2013 | Chapter on: Wavelet Analysis of Electrical<br>Signals from Brain: The<br>Electroencephalogram   | Pp.: 283-289 of Lecture<br>Notes of the Institute for<br>Computer Sciences,<br>Social Informatics &<br>Telecommunications<br>Engg. |
| 10. | J.S. Saini  | 2019 | Text Book of Measurements &<br>Instrumentation (With Experiments); <b>ISBN<br/>No. 978-93-88818-98-8</b>  | Published by New Age<br>International Publishers,<br>New Delhi   |

12. **SHORT-TERM COURSES CONDUCTED / EXPERT LECTURES DELIVERED / ORGANIZED / SESSIONS CHAIRED:**

- 12.1 Conducted the Practical Demonstration on ‘AI-based Control’ on June 6-7, 91 for the QIP Short-term course on ‘AI Tools & Their Engg. Applications’ held at **IIT, N. Dehli** w.e.f. 3.6.91 to 16.6.91.
- 12.2 **Co-Coordinator** of ISTE Winter School on ‘A.I. Applications to Power Systems & Control Systems’ conducted at R.E.C. (now N.I.T.), Hamirpur (H.P.) w.e.f. 11.1.93 to 24.1.93; **delivered 8 no. of Expert Lectures; conducted 2 Practical Demonstrations.**
- 12.3 Delivered **Expert Lecture** on ‘Analytical Structures for Fuzzy Controllers’ at AICTE-ISTE Sponsored STC on ‘Fuzzy Logic & Neural Networks in Identification & Control of Non-linear Systems’ at **NSIT, Dwarka**, New Delhi on 8.1.2004.
- 12.4 Delivered **Expert Lectures** on (a) ‘Self-regulating Fuzzy PID Controller’ (b) ‘Real-time Fuzzy Logic Based Control’ on **ISTE-AICTE Sponsored STC** on ‘Neural Networks & Fuzzy Logic Systems’ at G.Z.S. College of Engg., Bathinda on 7.1.99.
- 12.5 **Conducted** (developed experimental kits, prepared instruction sheets & delivered lectures) at STC on Industrial Controls at I.E.R.T. Allahabad w.e.f. 9.6.1986 to 21.6.86.
- 12.6 **Conducted** an ISTE Summer School on Electrical Control Circuits at T.T.T.I., Chandigarh. w.e.f. 30-6-1986 to 12-7-86.
- 12.7 **Conducted** an S.T.C. on Industrial Controls at G.P.C, Jodhpur from 22.9.1986 to 27.9.86.
- 12.8 **Coordinator**, till 14.9.95, of ‘National Seminar on Power Scenario in India’ held on Oct.14-15, 95 at REC, Hamirpur.
- 12.9 **Joint Org. Secy.**, All India Seminar on Power & Energy for Sustainable Growth organized by **Institution of Engineers (I)** Hr. State Centre & CRSCE, Murthal w.e.f. 20.2.03 to 21.2.03.
- 12.10 Delivered lecture on ‘Evolutionary Thoughts in Disaster Management’, in AICTE-ISTE sponsored Short-term Training Programme (STTP) on ‘Industrial Safety & Disaster Mgmt.’ (21.7.03 to 1.8.03) at CRSCE, Murthal.

- 12.11 **Co-convener** of All India Seminar on ‘Efficient Use of Motors, Generators & Drives for Industries & Utilities for Purpose of Saving in Energy’ organized by IE(I) Haryana Centre & CRSCE, Murthal on 16.2.1997.
- 12.12 **Coordinator** of ‘Training the Trainers Program on Performance Appraisal & Development System’ (May 95) at REC, Hamirpur.
- 12.13 **Coordinator**, AICTE-ISTE STTP on ‘Fuzzy Control: From Analytical Foundations to Applications in Chaos in Fuzzy Logic Controllers’, at CRSCE, Murthal, Sonipat w.e.f. 2.8.04 to 14.8.04; **delivered 8 no. of Expert Lectures.**
- 12.14 **Chaired** a Technical Session of National Conf. on Intelligent Systems & Networks at Haryana Engg. College, Jagadhri (Haryana) conducted w.e.f. Feb. 27-28, 2004.
- 12.15 Delivered expert lecture on Fuzzy Logic & Controls at YMCA Institute of Engg. Faridabad on 10.2.05 under TEQIP Programme’s Institutional Networking Scheme.
- 12.16 Delivered **Keynote address** at Inauguration of ISTE Chapter at Hindu College of Engg., Sonipat on 20.10.05.
- 12.17 Member, International Scientific Committee, & Reviewer for Asian Conf. on Intelligent Systems & Networks (AISN-2006) held at Centre for Advanced Technology, Haryana Engg. College, Jagadhri on Feb. 24-25, 2006.
- 12.18 Member, National Advisory Committee of National Electrical Engg. Conf. (NEEC-2006) held on Aug. 11, 2006 at G.N.D. Engg. College, Ludhiana.
- 12.19 Delivered expert lecture on Genetic Algorithms at STTP on Intelligent Control held during June 25-29, 07 at **NIT, Kurukshetra.**
- 12.20 Delivered expert lectures on Genetic Algorithms at TEQIP-sponsored STTP on Power System Operation & Control in New Environment held during Nov. 26-30, 07 at **NIT, Kurukshetra.**
- 12.21 **Convener, Core Committee Member & Resource Person** of the TEQIP-sponsored One-week National Workshop on Intelligent Systems & Mobile Adhoc Networks (ISMANET-07) organized by ECE & CSE Depts. w.e.f. 10.12.07 to 14.12.2007. Also, Editor-in-Chief of its Proceedings.
- 12.22 Delivered expert lecture on 21.12.07 on Robust Structures for Self-tuning FLCs at TEQIP-sponsored STTP on Robust Control & Applications held during Dec. 17-21, 07 at NIT, Kurukshetra.
- 12.23 Reviewer & Member, International Scientific Committee, International Conf. on Intelligent Systems & Networks (ISN-2008) held at Computational Intelligence Lab, ISTK, Yamunanagar on Feb. 22-24, 2008.
- 12.24 Program Chair & Member Advisory Board, **IEEE National conf.** on Applications of Intelligent Systems (AIS-2008) organized by Hindu College of Engg., Sonipat and IEEE w.e.f. March 13-15, 2008. Also, Editor of its Proceedings Published by Excel India Publishers, N.Delhi; ISBN: 978-81-906531-0-7.
- 12.25 **Member, Editorial Board**, Proc. of National Conf. on Clean Technology & Cleaner Production held 8-9 May, 2008 under TEQIP, organized by Ch.E.D., DCRUST, Murthal, Sonipat.
- 12.26 **Delivered Keynote Address** at National Conf. on Technological Innovations (NCTI-2008) held on 11-12 Oct., 2008 at BRCM College of Engg. & Tech., Bahal, Bhiwani.
- 12.27 Convener, 4 days **Intensive** Workshop on Towards an Excellent Work Culture conducted at DCRUST, Murthal w.e.f. 12 Dec, 2008 to 15 Dec, 2008.
- 12.28 **Keynote speaker & Member National Advisory Committee**, National Conf. on Industrial Electronics, Drives & Embedded Systems (IEDES-2009) held 7-8 Mar., 2009



- at Dept. of Electrical & Electronics Engg., BRCM College of Engg. & Tech., Bahal, Bhiwani (Proc. published by Excel India Publishers, N.Delhi).
- 12.29 Convener, National Workshop on Biomedical Engg. (BME-09) organized by BME Dept. of DCRUST, Murthal, Sonipat on Nov. 12-13, 2009.
- 12.30 Organized as Org. Secy. a Workshop on 'Time Management' at DCRUST, Murthal on 31.10.09.
- 12.31 **Delivered an Expert Lecture on Soft Computing & Chaired** a Technical Session at National Conf. on Role & Applications of Information & Communication Technology in Inaccessible Areas (RAICTIA-10) held on Feb. 17-18, 2010 under UGC-SAP at GJUS&T, Hissar.
- 12.32 **Delivered an Expert Talk & Chaired** a Technical Session at All India Conf. on Recent Emergences & Scope of Electronics Architecture held on Feb. 19-20, 2010 at Haryana Engg. College, Jagadhari.
- 12.33 Reviewer & Member, International Scientific Committee, & Chaired a session at 4<sup>th</sup> International Conf. on Intelligent Systems, & 1<sup>st</sup> Int. Conf. on Nanotechnology (IISN-2010) held Feb. 26-28, 2010 at ISTK, Klawad, Yamuna Nagar.
- 12.34 Chaired a Session & delivered an Invited Talk on Research Trends in National Conf. on Emerging Trends in Electronics & Communication Engg. organized by ECED, PIET, Panipat; Apr. 22-23, 2010.
- 12.35 Delivered a Lecture on Research Methodology at AICTE-sponsored National Staff Development Programme on Smart Materials organized by MED, SDITM, Israna, Panipat; July 19-31, 2010.
- 12.36 Delivered an Expert Lecture on Optimization Techniques in a Workshop on Smart Instrumentation & Optimization Techniques organized by Dept. of Electronic Instrumentation & Control Engg., IET, Alwar (Rajasthan); 23.10.2010
- 12.37 Chaired a Technical Session at International Conf. on Biomedical Engg. & Assistive Technologies (BEATs-2010), on 18.12.2010., organized by Depts. of I&C Engg. and ECE at Dr. B.R. Ambedkar National Institute of Technology, (NIT) Jalandhar.
- 12.38 Delivered a Tutorial on 'Research Guidelines' at 5th International multi-Conf. on Intelligent Systems, Sustainable, New & Renewable Energy Technology & Nanotechnology (IISN-2011) on Feb. 18, 2011; Organized by Computational Intelligence Lab., Center of Excellence in Nanotechnology & Center for Renewable Energy & Tech., Institute of Science & Tech., Klawad, Yamuna Nagar, Haryana.
- 12.39 Reviewer & Member, International Scientific Committee, 5th International multi-conf. on Intelligent Systems, Sustainable, New & Renewable Energy Tech. & Nanotechnology (IISN-2011) held Feb. 18-20, 2011 at ISTK, Klawad, Yamuna Nagar.
- 12.40 Delivered an Expert Lecture on 'E-Waste Management' on the eve of ISTE Chapter Inauguration on 2.4.11 at GIET, Sonipat.
- 12.41 Delivered an Invited talk on 'Optimization techniques' at 1st IEEE National Conf. on 'Emerging Trends in Engg. & Technology' on 3 Feb. 2012 organized by SBIT, Sonipat in association with IEEE Student Branch Delhi Section & IEEE IMS-EMBS Chapter & in collaboration with Computer Society of India (CSI) & Indian Society for Technical Education (ISTE) & with sponsorship from DRDO, N. Delhi, CSIR N. Delhi & HCL.
- 12.42 Member, Advisory Committee of 1<sup>st</sup> National Conf. on Emerging Trends in Engg. & Tech. organized by SBIT, Sonipat on Feb. 3-4, 2012 in association with IEEE Student Branch Delhi Section & IEEE IMS-EMBS Chapter & in collaboration with Computer Society of India (CSI) & Indian Society for Technical Education (ISTE) & with sponsorship from DRDO, N. Delhi, CSIR N. Delhi and HCL.

- 12.43 Member Jury Committee, Workshop on Innovations in Electrical Power Systems organized on 14<sup>th</sup> Mar 2012 by UIET, MDU, Rohtak.
- 12.44 Delivered an Expert Lecture in Workshop on Innovations in Electrical Power Systems organized on 14<sup>th</sup> Mar 2012 by UIET, MDU, Rohtak.
- 12.45 **Chaired** a Technical Session on 28.3.12 & Member Advisory Committee of National Conf. on Advances in Computing, Communication Networks & Electrical Systems organized by U.I.E.T., M.D.Univ., Rohtak.
- 12.46 Delivered an Invited Talk on Research Guidelines on 11.5.12 at AICTE-sponsored National Conf. on Emerging Trends in Computer & Information Technology organized by GVM Institute of Tech. & Management, Sonipat.
- 12.47 Addressed as Chief Guest at Inaugural Ceremony of ‘National Workshop on Modeling & Simulation Using Simulink With Engineering Applications’ on 13.10.2012 at BRCM College of Engg., Bahal
- 12.48 Delivered **Keynote address** on **Soft Computing** at Inauguration of TEQIP STC on Applied Soft Computing at SBS College of Engg. & Tech., Ferozpur on 26.11.12.
- 12.49 Delivered **Expert Talk** on **Research Guidelines** at TEQIP STC on Applied Soft Computing at SBS College of Engg. & Tech., Ferozpur on 26.11.12.
- 12.50 Chaired a Technical Session on IEEE International Power India Conf. on 20.12.12 at DCRUST, Murthal, Sonipat.
- 12.51 Chaired a Technical Session on Mar.13, 2013 at TEQIP-sponsored National Conference on Contemporary Techniques & Technologies in Electronics Engineering organized by ECE Dept., DCRUST, Murthal, Haryana and IEEE-EMBS / IMS.
- 12.52 **Convener** of the TEQIP-sponsored One-week Workshop on Computational Intelligence & Signal Processing w.e.f. 2.9.13 to 6.9.13.
- 12.53 Delivered 3 expert lectures on Research Guidelines at the **TEQIP-sponsored** One-week Workshop on Computational Intelligence & Signal Processing w.e.f. 2.9.13 to 6.9.13 at DCRUST, Murthal.
- 12.54 Delivered expert lectures on 10.10.13 on ‘Fuzzy Logic’ at the **TEQIP** Sponsored One-Week Short Term Course on SOFT COMPUTING, Organized by CSE Dept. 7-11 OCT., 2013.
- 12.55 **Resource Person**, TEQIP-sponsored 2-days Workshop on Art of Learning & Research Guidelines w.e.f. 18 to 19 Oct. 2013 at N.C. College of Engg., Panipat.
- 12.56 Delivered expert lecture on 11.11.13 on ‘Effective Education – Why & How’ at **National Education Day**, Organized by DCRUST, Murthal, Sonipat.
- 12.57 Delivered expert lecture on Research Guidelines at **AICTE-sponsored** National Conf. on Renewable Power Technologies & Electric Drives on 20.12.13 at MM Univ., Mullana.
- 12.58 Member, Advisory & Technical Committees of **AICTE-sponsored** National Conf. on Renewable Power Technologies & Electric Drives w.e.f. 19-20.12.13 at MM Univ., Mullana.
- 12.59 Member, Advisory Board, International Conf. on Innovation & Advances in Engg. & Technology w.e.f. 1.2.2014 to 2.2.2014 at Panipat Institute of Engg. & Tech., Panipat.
- 12.60 Member, Advisory Team & Editorial Board, International Conf. on Latest Trends in Wireless Communication on 11.2.2014 at Delhi Institute of Tech. & Mgmt., Gannaur, Sonipat.
- 12.61 Delivered expert lecture on Research Methodology at TEQIP-II Sponsored One Week Faculty Development Programme (FDP) on Recent Innovations in Infrastructure-less Network Technologies (RIINT-14) on 15.1.2014.

- 12.62 Invited Speaker & Panelist at Industry-Academia Conclave organized by Univ. Placement & Counseling Cell & Faculty of Commerce & Management Studies, BPS Mahila Vishwavidyalaya, Khanpur Kalan, Sonipat on 12.3.2014.
- 12.63 Member Advisory Committee, two days Workshop on MATLAB – A Tool for Technical Computing organized by Hindu College of Engg., Sonipat w.e.f. Apr. 16-17, 2014.
- 12.64 Delivered an Expert talk on Research Guidelines on 12.6.14 at the TEQIP-II STC on Data Analysis & Soft Computing at Dr. B.R. Ambedkar N.I.T., Jalandhar (Pb.).
- 12.65 Delivered an Expert Lecture on ‘Genetic Algorithm and its applications’ on 21.07.2014 in TEQIP-sponsored one-week STC on ‘Nature Inspired Computational Techniques for Engg. & Sciences’ conducted by ECE Dept., G.N.D.Enginnering College, Ludhiana, Punjab w.e.f 21.07.14 to 25.07.14.
- 12.66 Organized Expert Lecture on ‘Robotics’ by Dr. Amod Kumar, Director, CSIR, Chandigarh for Faculty & students of M.Tech. / P.G. programmes on 13.11.14.
- 12.67 Conducted Two-days **Intensive Workshop** on ‘Art of Learning’ for B.Tech., M.Tech., Faculty & Staff at D.C.R. Univ., Murthal on 14, 15 Feb. 2015.
- 12.68 Conceptualized a 5 days Training Programme & delivered 5 lectures on a range of topics for Hostel, Mess Supervisors, Matrons, & other Staff of 7 Hostels 25.5.2015 to 29.5.15.
- 12.69 Delivered 3 hrs. Expert Lectures on ‘The Why, What & How of Research’ and ‘Research Guidelines’ on 9.7.15 at the U.G.C.-Human Resource Development Centre (Acad. Staff College)-organized Refresher Course for Univ. & College Teachers at Kurukshetra University, Kurukshetra.
- 12.70 Delivered an Expert Lecture on ‘Soft Computing’ on 07.09.2015 in TEQIP-sponsored one-week STC on ‘Soft Computing’ conducted by CSE Dept., DCRUST, Murthal w.e.f 07.09.15 to 11.09.15.
- 12.71 Member Advisory Board, 4<sup>th</sup> International Conf. on Recent Innovations in Science, Engg. & Management organized by Hindu College of Engg., Sonipat on 13.4.2016.
- 12.72 Delivered an Expert Lecture on ‘Soft Computing Techniques’ on 19.04.2016 in TEQIP-sponsored STC on ‘Signal & Image Processing: Issues & Techniques’ conducted by ECE Dept., DCRUST, Murthal w.e.f. 18 to 22.04.16.
- 12.73 Delivered expert lecture on Class Ambience, Teacher-Taught Relationship & Teaching Methodology to Faculty of Hindu College of Engg., Sonipat on 11.5.2016.
- 12.74 Conducted one day’s Workshop on ‘Quality of Teaching Methodology’ at MSIT, Sonipat on 02.07.2016.
- 12.75 Delivered a talk on Academic, Research & Administrative experience, on Teacher’s Day to Students of Hindu College of Engg., Sonipat on 5.09.2016.
- 12.76 Delivered a seminar on ‘Art & Science of Learning’ at B.K. Centre, Model Town, Sonipat on Oct. 2, 2016.
- 12.77 Delivered a 3 hrs. expert lecture on ‘The What, Why & How of Research’ at a 2 days’ Workshop on Research Methodology held at MVSIT on 30.12.2016.
- 12.78 Conducted 3 hrs. Faculty Development Programme on ‘The Art & Science of Learning & Teaching’ at D.I.T.M., Gannaur, Sonipat on 16.1.2017.
- 12.79 Delivered 1.5 hrs. expert lecture on ‘The Art & Science of Learning, Teaching & Research’ on 24.1.2017 at FDM-cum-Refresher Course held at UIET, K.U., Kurukshetra.
- 12.80 **General Chair**, One Week TEQIP-sponsored FDP on Computational Intelligence Techniques organized in EED, DCRUST, Murthal, Sonipat from 6.2.2017 to 10.2.2017.

- 12.81 Member, Committee to formulate policy for AICTE-ECI Chhatra Vishwakarma Award for year 2017.
- 12.82 **Jury Member** for Selection of 1<sup>st</sup> AICTE-ECI Chhatra Vishwakarma Award 18.9.2017.
- 12.83 Member, Committee to review Working of Community College Scheme under NSQF in 2017; attended meeting at AICTE, New Delhi.
- 12.84 Made a presentation on Agility in Technical Education for Sustainable Development in the One day **Conf. of Vice-Chancellors, Directors, Principals & Senior Officials** of Technical Education Institutions on 'Reforms in Technical Education & the Way Ahead' on 30.11.2017 at NITTTR, Chandigarh. The panel discussion was chaired by Principal Secretary Higher Education Haryana (also the P.S. Technical Education, Haryana).
- 12.85 Delivered an Expert Talk on 'Soft Computing for Image & Signal Processing' on 11.01.2018 in TEQIP-sponsored Two-weeks FDP on 'Signal & Image Processing: Issues, Challenges & Techniques' conducted by ECE Dept., DCRUST, Murthal w.e.f. 01 to 12.01.18.
- 12.86 Member, Committee to design the Structure & Problem Statement for AICTE-ECI Chhatra Vishwakarma Award for year 2018 (meeting held on 19.1.2018).
- 12.87 **Convener** of 3 days Workshop on Framework for Integration of Engg. Curriculum with Modern Modes of Content Delivery sponsored by TEQIP at DCRUST, Murthal, Sonipat w.e.f. July 3 to 5, 2018.
- 12.88 **Coordinator** of 3 days AICTE FDP on Student Induction Program at DCRUST, Murthal, Sonipat w.e.f. July 13 to 15, 2018.
- 12.89 Delivered 3 hrs. expert talk on Life Skills at I.K. Gujral Punjab Technical University, Kapurthala on 23.7.2018 in the 3 weeks Induction Program for Fresher students.
- 12.90 **Convener** of the TEQIP-sponsored One-week National Workshop on Signal Processing & Computational Intelligence w.e.f. 17.9.18 to 21.9.18.
- 12.91 Delivered expert lecture on 'Research Methodology For Engineers' at the **TEQIP-sponsored** One-week National Workshop on Signal Processing & Computational Intelligence w.e.f. 17.9.18 to 21.9.18 at DCRUST, Murthal.
- 12.92 Delivered expert lecture on Microprocessor & Interfacing at Central University of Haryana, Mahendergarh on 28.9.2018.
- 12.93 **Coordinator** of **3-Weeks Induction Program** at DCRUST, Murthal, Sonipat w.e.f. Aug.16 to Sept. 5, 2018.
- 12.94 Delivered 3 expert lectures in the 3 weeks Induction program-2018 for Fresher students at DCRUST, Murthal.
- 12.95 **Convener** of the TEQIP-III-sponsored One-day National Workshop on Semiconductor Devices and Circuits Laboratory on NI ELVIS II<sup>+</sup> on 9<sup>th</sup> March 2019.
- 12.96 **As Nodal Officer, TEQIP-III, Imparted Training** under Twinning Activities (along with Dr. S. Verma, Coordinator, TEQIP-III) as **Mentor** to Mentee Institute TEQIP-I (Institute of Engg. & Tech., Agra) to Faculty & Staff & also delivered lectures to students of the Institute on 5 & 6 April 2019.
- 12.97 **Jury Member** for Evaluation of Innovative Projects for 3<sup>rd</sup> AICTE Chhatra Vishwakarma Awards-2019 (meeting held on 20.1.2019).
- 12.98 **Member** Committee to decide Theme & sub-themes of 3<sup>rd</sup> AICTE Chhatra Vishwakarma Awards-2019 (meeting held on 25.4.2019).
- 12.99 **Chief Coordinator** of **Student Induction Program** at DCRUST, Murthal, Sonipat w.e.f. Aug.19-27, 2019.

- 12.100 Expert Lecture, ‘Intent Listening – A Means to Success’ on 19.8.2019 at 2<sup>nd</sup> Induction Program (Aug.19-27, 2019).
- 12.101 Chaired a Session entitled ‘Soft Computing Techniques’ at Int. Conf. on Globalization & Competitiveness in Business & Tech. held w.e.f. 20 to 22.9.2019 at Avanti Palms Conf. Centre, Orlando, Florida, USA, sponsored by Univ. of Maryland Eastern Shore, USA & Frostburg State Univ., USA.
- 12.102 **Jury Member**, Committee for Evaluation of Video Clips / PPTs for AICTE-CVA-2019 at Central Regional Office, AICTE, Bhopal on 14.11.2019.
- 12.103 Chief Guest at Valedictory Function of Disaster Management Training Programme organized by BMED w.e.f. 14 to 15 Oct. 2019.
- 12.104 **Jury Member**, Committee for Evaluation of Videos / PPTs of Northern Region & North Westren Region for AICTE-CVA-2019 at AICTE H.Q.s, New Delhi on 21.11.2019.
- 12.105 **Delivered a Talk** to Faculty & Students on Fuzzy Systems at **Univ. of Pittsburgh, Pittsburgh, USA** on 25.9.2019, organized by their Computer Sci. Dept.
- 12.106 **Chief Coordinator** of AICTE-sponsored **1-Week FDP on Student Induction Program** at DCRUST, Murthal, Sonipat w.e.f. Jan. 5-11, 2020.
- 12.107 Delivered an online Expert Lecture on Technical Paper Writing on 13.5.2020 in the Online FDP on Skills We Developed During Lockdown organized by BMED w.e.f. May 10-15, 2020 at DCRUST, Murthal.
- 12.108 Delivered an online Expert Lecture on ‘How to Write Good Research Paper’ on 21.8.2020 in Online 6-days International FDP on Recent Trend in Higher Education organized by Gandhi Institute of Professional & Technical Studies, Meerut in association with Society for Scientific Research & Edu. w.e.f. Aug. 16-21, 2020 at GIPTS, Meerut.
- 12.109 Delivered two online Expert Lectures on: (a) ‘Intro. to Research, Concept Mapping, Formulation of Research Problem, & Types of Research Design’ on 7.9.2020 & (b) ‘Reliability & Validity of Measurement & Data; Ethical & Copyright Issues; Plagiarism in Research’ on 12.9.2020 in Online International Workshop on Research Methodology & Data Analysis (RMDA-2020) organized by Science-Tech Institute, Lucknow in collaboration with The Global Knowledge Foundation (GKF), USA during Sept. 07-13, 2020.
- 12.110 Delivered online Expert Lecture on ‘Industrial PID, Tuning Rules & Genetic-algorithm-tuned PID Control’ on 16.9.2020 in TEQIP-III-sponsored One-week Online FDP on ‘Recent Trends in Electric Power & Energy Systems-2020’ organized by EED, DCRUST, Murthal during Sept. 14-18, 2020.
- 12.111 Delivered online Expert Lecture as Keynote Speaker in Closing Ceremony of Orientation-cum-Online Student Induction Program at Hindu College of Engg., Sonipat 27.11.2020.
- 12.112 Delivered online Motivational Expert Lecture in Online Student Induction Program of EED at DCRUST, Sonipat on 21.12.2020.
- 12.113 Delivered online Expert Lecture on “Challenges & Pathways for Engineers” on 20.11.2021 for AICTE & EED, GJUST, Hissar FDP on Recent Challenges for Electrical & Electronics Engg (15.11.2021 to 20.11.2021).
- 12.114 Delivered Keynote Address as Guest of Honour in Student Induction Program-2021 at DCRUST, Sonipat on 2.12.2021.
- 12.115 Delivered Two sessions (each 2hrs.) on “The What, Why & How of Research” on 24.8.2022 at Central Univ. of Haryana, Mahendergarh (Haryana).

- 12.116 Delivered Two sessions on “Life Skills For Office Work Culture” on 26.8.2022 in AICTE & IKPTU Sponsored 2 weeks PDP on ‘Rules & Tools For Effective Office Governance’ at I.K.G.P.T.U., Jalandhar (Punjab).
- 12.117 Delivered a session on “Intent & Profound Listening” on 31.8.2022 in AICTE-DCRUST Sponsored PDP on ‘Multidimensional Training of Non-Teaching Staff for Enrichment in Working Capabilities & Well Being’ at DCR Univ. of Sci. & Tech., Murthal, Sonipat.

### 13. ADMINISTRATIVE EXPERIENCE

| S. No. | Name of Institution                                     | Designation   | Nature of Post: Permanent/Temporary          | Nature of assignment   | Period (dates)                 | Years, months     |
|--------|---|---|--|--|--------------------------------|-------------------|
| 1.     | REC (now NIT), Hamirpur (H.P.)                          | Head of the Electrical Engg. Dept.                    | Officiating Head (permanent as Asstt. Prof.) | To oversee functioning of the dept. + Lab establishment  | Different dates during 1994-95 | 4 ½ months        |
| 2.     | -do-  | Warden  | Extra duty                                   | To oversee functioning of Boys Hostel.   | 19.4.91 to 16.11.91            | 7 months          |
| 3.     | -do-  | Chief Warden  | -do-   | -do- for all hostels   | 30.10.91 to 1.3.92             | 4 months          |
| 4.     | -do-  | OIC Placement   | -do-   | Arranged 8 Campus Interviews   | 18.9.91 to 20.9.94             | 3 years           |
| 5.     | -do-  | Secy.-cum-Treasurer ISTE Chapter                      | Extra duty                                   | M/ship drive + organized 11 expert lectures for faculty & students   | 28.7.90 to 2.4.95              | 4 yrs. & 8 months |
| 6.     | C.R. State College of Engg., Murthal, Sonipat (Haryana) | Head of the Electrical Engg. Dept.                    | Head   | To Oversee the dept. + <b>Giant initiatives to start M.Tech.</b> course+ undertook <b>massive</b> syllabi revision | 31.8.2001 to 8.9.2003.         | 2 yrs. & 8 days   |
| 7.     | -do-  | Professor & Head;                                     | Head   | To Oversee the dept.   | 9.9.03 to 5.11.06              | 3 yrs. 2 months   |
| 8.     | DCR Univ. of Sci. & Tech., Murthal, Sonipat             | Professor & Chairman, EED                             | Chairman, EED                                | To Oversee the dept. + <b>initiatives to start another M.Tech.</b>   | 6.11.06 to 8.9.2010            | 3 yrs. 10 months  |
| 9.     | C.R. State College of Engg., Murthal,                   | Coordinator Projects, Store & Purchase of the College | Extra duty                                   | Gigantic purchase work almost on a war footing; <b>Milestone</b>   | 14.8.01 to 17.1.02             | 5 months          |

|     |   |  |                                       |  |  |                 |
|-----|---|--|---------------------------------------|--|--|-----------------|
|     | Sonipat (Haryana)                           |  |                                       | purchases for AICTE projects   |  |                 |
| 10. | -do-  | <b>Senior Warden</b>                                   | Extra duty                            | To oversee functioning of Boys Hostel.   | 30.5.03 to 19.4.2006.  | 3 years         |
| 11. | -do-  | <b>Nodal Officer (Academic Excellence) under TEQIP</b> | Extra duty                            | Work related to academic Excellence  | 1-3-2006 to 2008   | 2 yrs.          |
| 12. | -do-  | <b>Chief Coordinator</b>                               | Tenure-based AICTE-Sponsored Projects | R&D work worth Rs.4 lakhs<br>ii) Lab Modernization worth Rs.12 lakhs<br>iii) Research Promotion Scheme worth Rs. 6 lakhs | i) 1.4.1997 to 31.3.2001 &<br>ii) 1.4.2000 to 31.3.2004<br>iii) 1.4.2004 to 1.6.10 | 10 years        |
| 13. | DCR Univ. of Sci. & Tech., Murthal, Sonipat | Chairman, ECED   | Chairman                              | To Oversee the ECE dept.   | 6.11.06 to 7.11.2008   | 2 yrs.          |
| 14. | DCR Univ. of Sci. & Tech.                   | Chairman, BMED   | Chairman                              | To Oversee the BME dept.   | 7.2.07 to 30.8.2008  | 1 yr. 7 months  |
| 15. | DCR Univ. of Sci. & Tech.                   | Chairman, CSED   | Chairman                              | To Oversee the CSE dept.   | 7.11.07 to 7.11.2008   | 1 yr.           |
| 16. | DCRUST, Murthal                             | Chairman, Anti-ragging Squad                           | Extra duty                            | To issue necessary instructions to stop menace of ragging recommend action against ragging cases                         | 2009-2010  | 2 yrs.          |
| 17. | DCRUST, Murthal                             | Convener, Anti-ragging Advisory Council                | Extra duty                            | To issue necessary instructions to stop menace of ragging recommend action against ragging cases                         | 2009-2010  | 2 yrs.          |
| 18. | DCR Univ. of Sci. & Tech.                   | Supdt.-in-Chief, DCRUST Univ. Exam Centres             | Extra duty                            | To oversee University Annual Examinations  | 2011-2012  | 10.12.11-5.1.12 |
| 19. | -do-  | Officer  | Extra duty                            | To initiate & lead   | 20.4.2012 to   | 5 yrs.          |

|     |                                    |  |            |  |  |                 |
|-----|------------------------------------|--|------------|--|--|-----------------|
|     |                                    | Incharge Initiation & Accreditation of Dept. from NBA, & NAAC for Univ.                      |            | the Dept. in getting NBA accreditation (twice A grade) & in getting NAAC accreditation for the Univ.                             | 7.4.2017                                 |                 |
| 20. | -do-                               | Counselor for 2nd Year B.Tech. EE  | Extra duty | Counseling of students   | 20.4.2012 to 7.4.2017                    | 5 yrs.          |
| 21. | DCR Univ. of Sci. & Tech., Murthal | <b>Dean of Colleges</b> (approx.. 30 colleges) affiliated to DCRUST.                         | Extra duty | To Oversee the functioning of Affiliated Colleges, their norms & standards   | 8.4.11 to 1.8.2014 +24.6.2015 to 30.6.15 | 3 yrs. 4 months |
| 22. | DCR Univ. of Sci. & Tech           | Member, Centralized Admission to M.Tech. in State of Haryana                                 | Extra duty | To draft Prospectus, Rules & Regulations & to facilitate On-line Entrance Test & Admissions in M.Tech. in State of Haryana       | Apr.-July 2013                           | 4 months        |
| 23. | DCR Univ. of Sci. & Tech           | Chairman, Counseling for transfer of students  | Extra duty | Counseling for transfer of students from Sri Venkateshwar Engineering College to other college / institute affiliated to DCRUST. | 06.08.14 to 6.9.2014                     | 1M              |
| 24. | GJU, Hisar                         | Outside Expert,  | Extra duty | For Framing of Scheme & Syllabi for M.Tech. (EE)   | 30.08.14 to 30.9.14                      | 0Y 1M           |
| 25. | DCR Univ. of Sci. & Tech           | Member, Committee to consider completion of probation, & confirmation on teaching post, EED. | Extra duty | To consider completion of probation, & confirmation on teaching post   | 30.09.2014 to 30.10.14                   | 0Y 1M           |
| 26. | DCR Univ. of Sci. & Tech.,         | Chief Warden Boys Hostels  | Extra Duty | To oversee the functioning of 4 Boys' Hostels.   | 28.7.2014 to 27.09.16                    | 2 yrs 2 months  |



|     |                                     |   |            |   |  |          |
|-----|-------------------------------------|---|------------|---|--|----------|
|     | Murthal                             |   |            | Gave large impetus to disciplining, training, Yoga camps, Hostel Libraries & also introduced new concepts as Wellness Allowance,... |  |          |
| 27. | DCR Univ. of Sci. & Tech., Murthal  | Professor-in Charge of the Electrical Sub-division of the Univ.                     | Extra Duty | Overseeing Electrical Sub-division of the Univ.   | 30.4.15 to 30.6.15   | 2 months |
| 28. | DCR Univ. of Sci. & Tech., Murthal  | Member, Committee for Accreditation with NAAC & Submission of SSR.                  | Extra Duty | Accreditation with NAAC & Submission of SSR.  | 14.09.2015 to 14.11.2015   | 0Y 2M    |
| 29. | DCRUST, Murthal                     | Member, Anti-Ragging Committee  | Extra duty | To ensure compliance of UGC regulations on Ragging and to supervise & oversee Anti-ragging Flying Squad.                            | 2015-2016  | 2 yrs.   |
| 30. | DCR Univ. of Sci. & Tech., Murthal  | Member, Board of Under Graduate Studies in EED                                      | Extra Duty | Under Graduate Studies in Electrical Engineering Deptt.   | 12.01.16 to 11.01.18 but became Chairman of BoUGS w.e.f. 27.9.2016 | 2 yrs.   |
| 31. | DCR Univ. of Sci. & Tech., Murthal  | Chairman, Committee for analyzing the proposal of networking for Wi-Fi Connectivity | Extra Duty | To issue necessary instructions   | 11.05.2016 to 11.06.2016   | 1M       |
| 32. | Kurukshetra University, Kurukshetra | Member, U.G.B.O.S. in Instrumentation   | Extra Duty | External Expert Representative  | 29.08.2016 to 29.8.2018  | 2 yrs.   |
| 33. | DCR Univ. of Sci. & Tech.,          | <b>Chairman,</b> EED  | Extra Duty | To oversee the functioning of Department.   | 27.9.2016 To 27.9.2019   | 3 yrs.   |

|     |                                    |  |                   |  |  |                |
|-----|------------------------------------|--|-------------------|--|--|----------------|
|     | Murthal                            |  |                   |  |  |                |
| 34. | DCR Univ. of Sci. & Tech., Murthal | <b>Chairman,</b><br>D.R.C., EED  | Extra Duty        | To oversee & regulate the research studies in EED  | 27.9.2016 To 27.9.2019                       | 3 yrs.         |
| 35. | DCR Univ. of Sci. & Tech., Murthal | <b>Chairman,</b><br>U.G.B.o.S., EED  | Extra Duty        | To oversee & regulate the U.G. curriculum in EED   | 27.9.2016 To 27.9.2019                       | 3 yrs.         |
| 36. | DCR Univ. of Sci. & Tech., Murthal | <b>Chairman,</b><br>B.P.G.S&R. (PGBoS), EED                                      | Extra Duty        | To oversee & regulate the P.G. & Ph.D. curriculum in EED   | 27.9.2016 To 27.9.2019                       | 3 yrs.         |
| 37. | DCR Univ. of Sci. & Tech., Murthal | <b>Member,</b><br>Research Degree Committee (RDC) of Univ.                       | Extra Duty        | To grant Ph.D. degrees in Univ.  | 27.9.2016 To 27.9.2019 To 2.8.2020           | 3 yrs.         |
| 38. | DCR Univ. of Sci. & Tech., Murthal | Member,<br><b>Building Committee</b>   | Extra Duty        | To peruse & accord Committee's sanction of buildings & other construction activities for the Univ. | 6.6.2017 To Till Date                        | 2 yrs.         |
| 39. | DCR Univ. of Sci. & Tech., Murthal | <b>Dean,</b> Faculty of Engg. & Tech.,   | Extra Duty        | To oversee 5 Depts.  | 6.6.2017 To 3.7.2017 & 25.7.2017 to 2.8.2020 | 3 yrs.-1 month |
| 40. | -do-                               | Nodal Officer TEQIP-III with PLA of <b>Rs. 7.0 Crore</b> under NPIU / MHRD, GoI. | Extra Duty        | To oversee & steer the implementation of the World Bank Project TEQIP-III                          | 3.8.2017 to Mar.31, 2019                     | 1 yr. 7M       |
| 41. | -do-                               | Nominated for Interaction Meeting with AS (TE), MHRD                             | TEQIP-III-related | Performance Benchmarks & Expenditure in TEQIP-III  | 6.9.2019                                     | 1 day          |
| 42. | -do-                               | Nodal Officer Procurement  | Extra Duty        | To oversee the Procurement of the World Bank Project TEQIP-III                                     | 3.8.2017 to 31.3.2019                        | 1 yr. 7M       |

|     |  |   |            |  |   |                               |
|-----|--|---|------------|--|---|-------------------------------|
| 43. | -do-   | Member,<br>EXECUTIVE<br>COUNCIL   | Extra Duty | To oversee the<br>Univ.'s important<br>& policy level<br>vision & decisions. | 18.3.2011 to<br>18.3.2013 &<br>26.11.2019 to<br>31.4.2020 | 2 yrs. + 1<br>yr. 5<br>months |
| 44. | -do-   | Member, The<br>Univ. COURT  | Extra Duty | To ratify the<br>Univ.'s important<br>& policy level<br>vision & decisions.  | 19.3.2008 to<br>18.3.2010                                 | 2 yrs.                        |
| 45. | DCR Univ.<br>of Sci. &<br>Tech.,<br>Murthal                          | <b>Dean</b> , Faculty<br>of I.T. &<br>Comp. Sci.,   | Extra Duty | To oversee I.T. &<br>CSE Depts.  | 15.1.2018 To<br>15.4.2018                                 | 3 months                      |
| 46. | State<br>Institute of<br>Engg. &<br>Tech.,<br>Nilokheri,<br>Harayana | Nodal Officer   | Extra Duty | To oversee the<br>functioning of<br>State Engg.<br>College                   | Aug. 2018 till Mar.<br>2020                               | 1Y 8M                         |
| 47. | DCR Univ.<br>of Sci. &<br>Tech.                                      | Supdt.-in-<br>Chief,<br>DCRUST<br>Univ. Exam<br>Centre-2  | Extra duty | To oversee<br>University Centre-<br>2 Annual<br>Examinations                 | May-June 2018   | 7.5.18-<br>7.6.18             |
| 48. | DCR Univ.<br>of Sci. &<br>Tech.,<br>Murthal                          | Chairman,<br>Purchase<br>Committee for<br>Procurement<br>under TEQIP-<br>III                                    | Extra duty | To oversee<br>Procurements /<br>Purchases under<br>TEQIP-III                 | 8.1.2019  | 0Y 3M                         |
| 49. | DCR Univ.<br>of Sci. &<br>Tech.,<br>Murthal                          | Chairman of<br>about 40<br>Screening<br>Committees for<br>EED, ECED,<br>CED, MED &<br>BMED                      | Extra duty | To screen the<br>C.A.S. cases for<br>promotion of<br>Faculty                 | 2017, 2018, 2019,<br>2020                                 | 4 yrs.                        |
| 50. | DCR Univ.<br>of Sci. &<br>Tech.,<br>Murthal                          | Member of<br>about 40<br>Screening-<br>cum-<br>Evaluation<br>Committees for<br>EED, ECED,<br>CED, MED &<br>BMED | Extra duty | To screen &<br>evaluate the<br>C.A.S. cases for<br>promotion of<br>Faculty   | 2017, 2018, 2019<br>& upto 2.8.2020                       | 3.8 yrs.                      |
| 51. | Distt.   | Duty  | Duty as    | Maintaining Law  | 10.4.2019-  | 1 day                         |

|     |                                    |  |                            |   |                                      |                                      |
|-----|------------------------------------|--|----------------------------|---|--------------------------------------|--------------------------------------|
|     | Sonipat                            | Magistrate   | assigned by D.C., Sonipat. | & Order in General Lok Sabha Elections.                     | 12.5.2019.                           | with 4 rehearsals in Apr. & May 2019 |
| 52. | DCR Univ. of Sci. & Tech., Murthal | Chairman, Procurement Complaint Redressal Cell under TEQIP-III                             | Extra duty                 | To resolve complaints cases of procurements under TEQIP-III | 2018, 2019                           | 2 yrs.                               |
| 53. | DCRUST & Affiliated Colleges       | Chairman/ Member Student Grievances Committee  | Extra duty by Exam. Branch | Resolve complaints on End Sem. Theory Exams.                | 2007 to 2010, 27.9.2016 to 2.8.2020. | 7 yrs.                               |
| 54. | DCR Univ. of Sci. & Tech., Murthal | Member, Steering Committee for Incubation Centre on A.I. & IoT based Robotics & Automation | Extra duty                 | To steer the functioning of Incubation Centre               | 11.2.2020 to 2.8.2020                | 6 months.                            |

#### 14.CONTRIBUTIONS TO TEACHING MATERIAL / MEMBERSHIP OF ACADEMIC BODIES / INDUSTRIAL VISITS ORGANISED

- 14.1 **Developed** an exhaustive Laboratory Manual for three experiments on Synchro & updated several other manuals/ experiments at CRSCE, Murthal. Also **developed** several Lab Manuals at REC (now NIT), Hamirpur & at G.N. Engg. College, Ludhiana.
- 14.2 **Designed** the syllabi of approx. 20 number of new courses in emerging areas of technology.
- 14.3 **Group Coordinator/Convenor** for Revision & Presentation of Curriculum in Elect. Engg. in **State Level Conference of Vice Chancellors & Director-Principals** of Tech. Institutions for Curriculum Revision held at CII, Chandigarh on 9.5.03. **Coordinated** redesign of entire curriculum (amounting to syllabi of approx. 40-50 no. of subjects) for B.E. in Elect. Engg. but also provided resource materials for Elex. & Comm. Engg. and Elex. & Instmn.
- 14.4 **Designed** a proposal for M.Tech. in Control & Instrumentation along with **design** of syllabi for approx. 15 no. courses & were *among the first two deptts. in the college to start an M.Tech. Programme w.e.f. 2003.*
- 14.5 Contributed to curriculum design thro' meetings of Faculty of Engg. & Tech., H.P. Univ. dtd. 27.4.1991, 28.8.92 & 16.7.94.

- 14.6 Member, Board of Studies, H.P. Univ., Shimla w.e.f. 11.10.91 for 2 yrs. Contributed to curriculum design thro' its meetings dtd. 17.4.1993 & 6.9.93.
- 14.7 Member, BOS, M.D. Univ., Rohtak w.e.f. 28.10.03 for 2 yrs. Contributed to curriculum design thro' its meetings.
- 14.8 Convener, Committee (May 99) to prepare syllabi for Elex. & Commn. Engg. for Lateral Entry Scheme Admissions for Diploma Holders.
- 14.9 Students had been writing time- & page-consuming general precautions with each experiment. Removed this redundancy (with increased focus on pertinent precautions) by developing a List of General Precautions for students to write it once in Lab Report & Lab In-charges advised to display it prominently in Labs.
- 14.10 Lecture notes of about 50 expert lectures delivered at various AICTE-ISTE sponsored Short Term Courses constitute as teaching material for **advanced courses** such as 'Fuzzy Control', 'Genetic Algorithms in Control', 'Intelligent Instrumentation' etc.
- 14.11 Developed a no. of **experimental kits** for industrial controls using thyristors & contactors at T.T.T.I., Chandigarh.
- 14.12 Designed & got fabricated a 3-phase balanced Loading Rheostat at REC, Hamirpur (H.P.)
- 14.13 Designed & got fabricated a **PILOT PLANT** at a cost of Rs. 68000/- (as against market rate of Rs. 2.00 - 2.50 lakhs) at CRSCE, Murthal, Sonipat to give the students an insight into & hands-on exposure on 'real-world' instrumentation, interfacing of computers with real-world analog processes, & a facility for research (Yr. 2004)
- 14.14 Accompanied 4<sup>th</sup> Yr. EE students on an Industrial Tour to State Load Dispatch Centre, Siwah, Panipat 2008.
- 14.15 Member, Board of Studies, GJUS&T, Hissar w.e.f. Sept. 2011 for 2 yrs. & contributed to curriculum design thro' its meetings.
- 14.16 Developed (in yr. 2011) the Syllabi for Fuzzy Control System Lab
- 14.17 Developed (in yr. 2011) the Apparatus List for Fuzzy Control System Lab
- 14.18 Developed (in yr. 2011) the Apparatus List for Industrial Lab
- 14.19 Member, U.G. Board of Studies, D.C.R. Univ. of Sci. & Tech., Murthal w.e.f. 2006 & contributed to curriculum design thro' its meetings.
- 14.20 Member, Board of P.G. Studies & Research, D.C.R. Univ. of Sci. & Tech., Murthal w.e.f. 2006 & contributed to curriculum design thro' its meetings.
- 14.21 Contributed in design of a Course on Moral Values, Ethics & Sports in Yr. 2011.
- 14.22 Member, **ACADEMIC COUNCIL**, D.C.R. Univ. of Sci. & Tech., Murthal w.e.f. 14.10.12 for 2 yrs. & contributed to curriculum design thro' its meetings.
- 14.23 Member, Faculty of Engg. & Technology, D.C.R. Univ. of Sci. & Tech., Murthal w.e.f. 31.12.12 & contributed to curriculum design thro' its meetings.
- 14.24 Member, Board of Studies, MM Univ., Mullana, w.e.f. 2012 for 2 yrs. Contributed to curriculum design thro' its meetings.
- 14.25 Member DRC w.e.f. 2006 to date at DCRUST, Murthal; Attended its meetings.

- 14.26 Member, Research Advisory Committee, DCRUST, Murthal since 2012, attended its meetings in 2012, 2013, on 12.2.14, ... .
- 14.27 Member of GJUS & T, Hissar w.e.f. 2012 & contributed to curriculum design of EE in meeting dtd. 30.8.2014.
- 14.28 Member, **ACADEMIC COUNCIL**, M.D.Univ., Rohtak w.e.f. 28.4.14 for 2 yrs. & contributed thro' its 5-7 meetings upto 28.4.2016.
- 14.29 Chairman, B.O.S., Shaheed Bhagat Singh Govt. Engg. College, Ferozepur w.e.f. Aug. 2015 to till date.
- 14.30 Designed (in yr. 2015) the M.Tech. Syllabi for Modern Control Systems.
- 14.31 Designed (in yr. 2015) the M.Tech. Syllabi for Fuzzy Logic Control System.
- 14.32 Designed (in yr. 2015) the M.Tech. Syllabi for Genetic Algorithms Based Optimization.
- 14.33 Designed (in yr. 2015) the M.Tech. Syllabi for Modelling & Simulation Lab.
- 14.34 Designed (in yr. 2015) the M.Tech. Syllabi for Advanced Control & Instrumentation Lab.
- 14.35 Chairman, Board of Post Graduate Studies & Research, Dept. of Electrical Engineering, DCRUST, Murthal, w.e.f. 17.3.16 for 3 yrs.
- 14.36 Chairman, Board of Studies, EED, DCRUST, Murthal, w.e.f. 17.3.16.
- 14.37 Chairman, Departmental Research Committee, EED, DCRUST, Murthal, w.e.f. 17.3.16 for 3 yrs.
- 14.38 Member, Board of Studies in Engg. & Tech., M.D. Univ., Rohtak w.e.f. 21.2.18 for 2 yrs. & contributed through its meetings (29.1.2019,...)
- 14.39 Member, School Board, School of Engineering & Technology (vide noti. no. CUH/ 2018/ A&C/ 44 dtd. 19.6.2018), Central University of Haryana, Mahendergarh w.e.f. 19.6.2018. Chaired BoS meeting on 18.5.2018 & 28.9.2018
- 14.40 Member, Board of Studies for Skill Dept. of Robotics, Haryana Vishwakarma Skill Univ., Dudhola, Palwal (current address Sec.-44, Gurugram) w.e.f. Nov. 2018 & contributed through its meetings dtd. 2.11.2018.
- 14.41 Member (Ex-Officio) of **ACADEMIC COUNCIL**, D.C.R. Univ. of Sci. & Tech., Murthal w.e.f. 31.12.18 & contributed to curriculum design thro' its meetings.
- 14.42 Chairman, Academic audit & Paper Moderation at Central Univ. of Haryana, Mahendergarh on 6.12.2018.
- 14.43 Member, Research Degree Committee at DCRUST since 2006 to 7.9.2010 and from 27.9.2016 till 30.4.2021.
- 14.44 Expert Member, AICTE Committees since 2006.

## 15. LITERARY, CULTURAL, SPORTS & OTHER ACTIVITIES & ATTAINMENTS / DISTINCTIONS

- 15.1 **BEST AROUND STUDENT AWARD** winner at B.Tech. for the years **1979-1983** (*This award is bestowed once in the Degree for all branches*).
- 15.2 **Editor**, Science & Technology Section, REC, Hamirpur Magazine w.e.f. 6.8.92 to

- 14.9.95.
- 15.3 **1<sup>st</sup> Prize** in English Extempore & **2<sup>nd</sup> Prize** in Punjabi Extempore during 1982-83 and **3<sup>rd</sup> Prize** in English Extempore during 1981-82 at B.Tech.
  - 15.4 **Two 1<sup>st</sup> Prizes, two 2<sup>nd</sup> Prizes & Three Special Prizes** in College Cultural Eves during 1981-83, **Directed** two events & participated in many events (1980-83).
  - 15.5 **2<sup>nd</sup> in 5 Km. race** (1983) & **3<sup>rd</sup> in 5 Km. race** (1982) in College Athletic Meets.
  - 15.6 **3<sup>rd</sup> in each of 800 m., 1500 m. & 5 Km. races** in **Distt. Athletics Championships (men)** during 1982-83.
  - 15.7 **2<sup>nd</sup> in 400 m.** staff race at REC (now NIT), Hamirpur (H.P.) in 1986-87.
  - 15.8 **2<sup>nd</sup> in 100 m.** race at C.R. State College of Engg., Murthal, Sonipat in Annual Sports Meet 1999.
  - 15.9 Member, College Yoga Team (1983).
  - 15.10 Awarded **Univ. Certificate** for active NSS services w.e.f. 1980 to 1983.
  - 15.11 Awarded Certificate for Active Membership of Task Force of Students Chapter (1982-83) of Institution of Engineers (India) & **organized** a no. of Contests & Talks under its aegis.
  - 15.12 Presented a paper, “What should be mixed with Engineering Education to make it a Consistent & Coherent Whole” in Seminar on ‘Human Values in Engg. & Technical Institutions’ held at REC, Hamirpur (H.P.) on 13.8.1987.
  - 15.13 Presented a paper, “Drug Abuse & **WORK THERAPY**” in a Workshop on ‘Drug Abuse Awareness & Antidote’ at REC, Hamirpur (H.P.) on 4.4.1988.
  - 15.14 Delivered a lecture on “Effective Study Habits” to faculty & students of REC, Hamirpur on 20.11.93.
  - 15.15 Presented a paper, “Students Motivation” in Trg. Programme on ‘TQM in Tech. Edu.’ ISTE Chapter, CRSCE, Murthal, Sonipat (Feb.20-22, 98).
  - 15.16 Presented a paper, “Evolutionary Thoughts in Disaster Management” in AICTE-ISTE sponsored STTP on ‘Industrial Safety & Disaster Management’ at CRSCE, Murthal, Sonipat (21.7.03 to 1.8.03).
  - 15.17 Delivered a lecture on “Engineering Education – What Are We Heading Towards? Can We Arrest The Downslide? at ISTE sponsored Workshop on ‘Technical Edu. & Poor Stuff: Remedial Measures’ at CRSCE, Murthal, Sonipat on 21.10.04.
  - 15.18 Member, Sports Council (yr. 2001) at CRSCE, Murthal, Sonipat
  - 15.19 Chief Guest at Inter-College Sports Tournament (i) at IITM, Murthal, Sonipat on 13.3.13 (ii) at P.M. College of Engg., Kami, Sonipat in yr. 2013.
  - 15.20 Member, Sports Council, DCRUST, Murthal, Sonipat w.e.f. 2013
  - 15.21 Chief Guest, Prize Distribution Ceremony of Annual Sports Meet 2014, TCM College of Engg., Sonipat on 20.2.2014.
  - 15.22 Chief Guest, Annual Fest & Convocation on 28.3.2014 at P.M. Group of Institutions, Kami, Sonipat.
  - 15.23 Chief Guest, Annual Techno Cultural Festival on 29.3.2014 at Surya World Institutions of Acad. Excellence, Bapror, Rajpura.
  - 15.24 Chief Guest, Inter-College Declamation & Mono-acting Contest on 5.4.2014 at Gateway Institute of Engg. & Tech., Sonipat.

- 15.25 Member, Anti-ragging Committee for Colleges w.e.f. 6.9.13.
- 15.26 Member, Distt. Level Anti-ragging Committee w.e.f. 21.2.14.
- 15.27 Member, Anti-ragging Committee for DCRUST, Murthal (July 2015 to 2016)
- 15.28 Chairman, Hospitality & Accommodation Committee for Rhythm-2015.
- 15.29 Guest of Honour on Annual Techno-Cultural Function, Hindu College of Engg., Sonipat on 5.4.2016.
- 15.30 Member, Library Purchase Committee w.e.f. 09.10.2014 to 2019.
- 15.31 Convener, Discipline Committee of Cultural Function 'Rhythm' 2014.
- 15.32 Member, Arya Bhatta Research Scholarship Committee (2008-09, 2009-10).
- 15.33 Member, Library Committee w.e.f. 2017.
- 15.34 Convenor, Committee for installation of 1 MW roof top Solar Plant (16.8.2018)
- 15.35 Returning Officer, Students Elections-2018, EED, DCRUST, Murthal.
- 15.36 Member, Coordination committee, for organizing 11<sup>th</sup> D.C.R. Memorial Lecture on 21.11.2018.
- 15.37 Convener, Committee to decide Creation of Additional Posts of Tech. Supporting Staff on the pattern of NITs. Meeting in Feb./ Mar. 2020.
- 15.38 Participated in Tree Plantation at GVM Girls College, Sonipat on the foundation day of Youth Hostels Association of India on 25.8.2020.
- 15.39 Participated in Building Committee meeting to take possession of Hostel Building (Boys & Girls) on 14.09.2020 at Dr. B.R. Ambedkar National Law Univ., Rai, Sonapat.
- 15.40 Convener, Brand Selection Committee for LED lights & poles, meeting 29.9.2020.
- 15.41 External Expert for Annual Deptl. Presentation for School of Engg. & School of Life-Long Learning, Central Univ. of Haryana (CUH), Mahendergrah on 17.11.2021.

**16. SEMINARS/ CONFS. / SHORT TERM COURSES / STTPs/ SUMMER SCHOOLS / WINTER SCHOOLS/ WORKSHOPS ATTENDED**

| S. no. | From     | To       | For Institute/ Industry | Sponsored / Organized by  | Name of the course/ Workshop                                       |
|--------|----------|----------|-------------------------|---|--|
| 1.     | 15.6.87  | 27.6.87  | Both                    | TTTI, Chd. under Q.I.P. at Dehar Power House, Sundernagar (H.P.)  | S.T.C on 'Hydroelectric Power Station Practices'                   |
| 2.     | 11.12.89 | 16.12.89 | Both                    | HRD, <u>IITD</u> & <u>BRITISH COUNCIL</u> , Delhi, at <u>IITD</u> | 'National Workshop On Distributed Computer Control Systems'.       |
| 3.     | 23.2.91  | 25.2.91  | Both                    | S.G.S.I.T.S., Indore  | National Conf. on Real-Time Systems.                               |
| 4.     | 3.6.91   | 16.6.91  | Both                    | EED, <u>IIT, DELHI</u> under QIP                                  | STC on 'Artificial Intelligence Tools & Their Engg. Applications'. |
| 5.     | 30.4.92  | 2.5.92   | Both                    | Faculty of Engg.,   | National Seminar Workshop on                                       |



|     |          |          |      |  |   |
|-----|----------|----------|------|--|---|
|     |          |          |      | D.E.I., Agra.  | System Design & Simulation.   |
| 6.  | 18.5.92  | 23.5.92  | Both | British Aid to Micropro-cessor Applications Programme at <b>IIT, Delhi</b> | 'Intensive Course on Transputers & Their Applications'  |
| 7.  | 5.9.92   | 5.9.92   | Both | <b>IEEE Delhi Section at IIT, Delhi</b>                                    | Seminar on 'AI in Power System Operation'.  |
| 8.  | 17.2. 93 | 19.2.93  | Both | College of Engg., Anna Univ., Madras                                       | National Systems Conference.  |
| 9.  | 9.1.94   | 12.1.94  | Both | S.V. Univ., Tirupati.  | National Symposium on Instmn. (NSI-18).   |
| 10. | 14.1.95  | 16.1.95  | Both | Faculty of Engg., D.E.I., Agra   | National Systems Conference.  |
| 11. | 1.2.95   | 2.2.95   | Both | <b>University of Roorkee (now IIT)</b>                                     | <b>Special Course</b> for imparting specialized & advanced knowledge on 'Intelligent Sensors' |
| 12. | 3.6.96   | 9.6.96   | Both | <b>I.I.T., KHARAGPUR</b>   | Q.I.P. sponsored STC on 'Forecasting in Business & Industry'                                  |
| 13. | 17.12.98 | 19.12.98 | Both | <b>IEEE Region-10</b>  | International Conf. on 'Global Connectivity in Energy, Computer, Communication & Control'     |
| 14. | 20.2.98  | 22.2.98  | Both | ISTE Chapter, CRSCE, Murthal, Sonipat                                      | Training Programme on 'TQM in Tech. Edu.'.  |
| 15. | 4.6.98   | 4.6.98   | Both | Dept. of Electronics, & Computer Engg., REC, Kurukshetra                   | Workshop on 'Fuzzy Logic Technology'.   |
| 16. | 1.2.99   | 6.2.99   | Both | ISTE Chapter CRSCE, Murthal, Sonipat                                       | 'Programming Exposure to C/ C++'.   |
| 17. | 13.12.01 | 15.12.01 | Both | Univ. of Calcutta, Kolkata.  | <b>Int. Conf.</b> on Control, Instmn. & Info. Communication (CIIC-01).                        |
| 18. | 26.12.01 | 28.12.01 | Both | I.I.T., Mumbai   | <b>Int. Conf.</b> on Quality, Reliability & Control (ICQRC-01).                               |
| 19. | 20.2.03  | 21.2.03  | Both | IE(I) Hr. Centre & CRSCE, Murthal,   | <b>All-India Seminar</b> on Power & Energy for Sustainable Growth (PESG-2003).                |
| 20. | 31.3.03  | 4.4.03.  | Both | <b>INTEL &amp; IITD</b>  | 'Curriculum Development Workshop on Advances in Microprocessors'                              |
| 21. | 9.11.04  | 10.11.04 | Both | <b>IEEE-IAS &amp; PES, N. Delhi</b>  | <b>International. Conf.</b>   |

|     |            |            |                           |   |   |
|-----|------------|------------|---------------------------|---|---|
| 22. | 15.2.05    | 15.2.05    | Both                      | CRSCE, Murthal & NIT, Kurukshetra at CRSCE.   | STC on Intellectual Property Rights.  |
| 23. | 14.10.95   | 15.10.95   | Both                      | IE(I) & REC, Hamirpur, (H.P.)   | National Seminar on Power Scenario in India.  |
| 24. | 16.2.97    | 16.2.97    | Both                      | IE(I) Hr. Centre & CRSCE, Murthal.  | National Seminar on 'Efficient Use of Motors, Generators & Drives in Industries & Utilities for Energy saving'.   |
| 25. | 10.12.07   | 14.12.2007 | Both                      | ECE & CSE Depts., DCRUST, Murthal   | TEQIP-sponsored One-week National Workshop on Intelligent Systems & Mobile Adhoc Networks (ISMANET-07): Attended & <b>Convener, Core Committee Member &amp; Resource Person</b> . Also, Editor-in-Chief of its Proceedings. |
| 26. | 22.4.2009  | 24.4.2009  | Both                      | Centre for Organizational R&D, N. Delhi on behalf of SPFU, Haryana under TEQIP at Panchkula | Training Programme on Managerial Skills   |
| 27. | 19.12.12   | 22.12.12   | Both                      | IEEE & DCRUST, Murthal, Sonipat   | IEEE International Power India Conf.  |
| 28. | 13.7.13    | 14.7.13    | Both                      | IIT Delhi & IEEE Computational Intelligence Society Chapter, Delhi                          | International Workshop on Computational Intelligence: theory, Applications & Future Directions.   |
| 29. | 20.3.14    | 26.3.14    | Teachers & Administrators | <b>Indian Institute of Management (I.I.M.)</b> , Indore                                     | MHRD's National Mission for Teachers & Administrators <b>Management Capacity Enhancement Programme</b>  |
| 30. | 4.4.2014   | 4.4.2014   | Both                      | IITAA, Indian Institute of Technology (I.I.T.), N. Delhi                                    | Leadership through Self-Discovery   |
| 31. | 28.09.15   | 29.09.15   | Faculty & Researchers     | Women Cell, DCRUST, Murthal   | Workshop on Gender Sensitization  |
| 32. | 18.7.16    | 23.7.16    | Both                      | <b>Indian Institute of Science (I.I.Sc.)</b> , Bengaluru                                    | Intensive Continuing Education Tutorial Workshop on 'Nonlinear, Adaptive, Optimal and Embedded Control'   |
| 33. | Sept. 2017 | Sept. 2017 | Deans, Directors,         | NPIU, Noida   | One-day Workshop on Sensitization Programme on Induction training of  |

|     |            |            | VCs                  |   | 1 <sup>st</sup> Yr.  |
|-----|------------|------------|----------------------|---|--|
| 34. | 11.12.2017 | 11.12.2017 | Chairpersons of BoGs | MHRD & NPIU, WB (TEQIP-III) at AICTE Auditorium, N. Delhi                                   | National One Day Summit on Good Governance   |
| 35. | 10.7.2018  | 12.7.2018  | Senior Faculty       | Engineering Staff College of India (under the aegis of Institution of Engineers), Hyderabad | Continuing PDP on 'Conflict Management, Decision Making & Problem Solving Skills'  |
| 36. | 7.9.2018   | 9.9.2018   | Senior Faculty       | NBA, NPIU, MHRD, AICTE at Dr. Ambedkar International Centre, N. Delhi                       | 4 <sup>th</sup> World Summit on Accreditation (WOSA) (theme: Challenges & Opportunities in Outcome Based Accreditation). |
| 37. | 13.9.2018  | 15.9.2018  | Senior Faculty       | Indian Institute of Management (IIM), Raipur, Chattisgarh                                   | Professional Development Training (PDT)  |
| 38. | 25.5.2019  | 25.5.2019  | Faculty              | MED, DCRUST, Murthal  | One day 'AICTE Workshop on Examination Reforms'  |
| 39. | 2019       |            | Faculty & Students   | M.E.D., DCRUST, Murthal   | Talk on 'Legend of Shaheed Bhagat Singh' by Dr. Jagmohan Singh (nephew of the former), Prof. CSE, PAU, Ludhiana.         |
| 40. | 8.7.2019   | 9.7.2019   | Faculty              | DCRUST, Murthal   | STTP on 'Emotional Competence For Effective Team Management & Conflict Resolution'                                       |
| 41. | 4.8.2020   | 6.8.2020   | Faculty              | UCC, DCRUST, Murthal & JCB YMCAUST, Fbd.  | Online Workshop on G-Suite (3 p.m. to 5 p.m. each day)   |

## 17. SPONSORED PROJECTS UNDERTAKEN

| Sr No. | Sponsoring Agency | Title of the Project  | Area        | Period | Amount of grant | Whether completed           | Accomplishment  |
|--------|-------------------|---|-------------|--------|-----------------|-----------------------------|---|
| 1.     | AICTE, N. Delhi   | 'Neuro-Fuzzy Techniques in Prediction & Control of Chaotic Systems' | R&D Project | 4 yrs. | Rs.4 lakhs      | Yes, completed on 30.3.2001 | Besides equipment procurement, Published 3 research papers in <b>Int.</b> confs., 2 in National Journals & submitted one to |

|    |  |  |                 |                  |                              |   |   |
|----|--|--|-----------------|------------------|------------------------------|---|---|
|    |  |  |                 |                  |                              |   | IEEE Journal  |
| 2. | AICTE, N. Delhi  | Modernization of Control & Dives Lab at CRSCE, Murthal.  | MODROBS Project | 4 yrs.           | Rs.12 lakhs                  | Yes, completed in Mar. 04                     | Besides equipment procurement, designed & got fabricated a <b>PILOT PLANT</b> at a cost of Rs. 68000/- (against market rate of Rs. 2.00-2.50 lakhs) at CRSCE, Murthal, Sonipat to create a research facility f& to give students an insight into & hands-on exposure on 'real-world' instrumn., interfacing of computers with real-world analog processes, etc. |
| 3. | State Council for Sci., Tech. & Environ., H.P., Shimla | Design & fabrication of Interfaces with PC for Instrumentation.  | Design Project  | 1 yr.            | Rs.4500/                     | Completed in 1992                             | Developed Interfaces with PC for Instrumentation  |
| 4. | H.P. Govt. under UPA Programme.                        | To provide trg. & ... in Elect. & Elex & to design & implement innovative technologies for solar power generation. | Trg. & Design   | 2 yrs. (1992-93) | 1.5 Lakhs (not fully recd.). | Partially complete as full grant not received | Published research papers on<br>(a) Digital Fault Detection System for Solar Water Heating System.<br>(b) Concern for Optimal Performance of Solar Electric Generator Systems   |
| 5. | AICTE  | Genetic  | RPS Project     | 6 yrs.           | 6 lakhs                      | Sanctionedon                                  | Completed;  |

|    |          |                               |  |        |           |                                    |  |
|----|----------|-------------------------------|--|--------|-----------|------------------------------------|--|
|    | N. Delhi | Algorithms & Applications     |  |        |           | 22.3.2004, completed on 13.10 2010 | Procured equipment & published papers      |
| 6. | DST      | Setting up of an Energy Park. | Infrastructure & Demonstration Project | 2 yrs. | 1.5 lakhs | Yes                                | Set up the gadgets related to Energy Park. |

**18. CONSULTANCIES RENDERED:**

Rendered consultancies for Motor Testing to Kay International, Rai, Sonipat.

**19. MENTORING SERVICES RENDERED:**

- (i) Mentor (May 2018) for NBA accreditation of EED for CoT, G.B. Pant Univ. of Agriculture & Technology, Pantnagar, Uttarakhand.
- (ii) Subject Expert / Mentor for NAAC accreditation of NorthCap Univ., Gurugram, Dec. 21-22, 2021.
- (iii) Mentor (Mar., Apr., May 2022) for NBA accreditation of ECED, PIET, Smalakhya, Panipat.
- (iv) Mentor for EECE, NorthCap Univ., Gurugram on 26.5.2022.

**20. MEMBERSHIP OF PROFESSIONAL BODIES:**

- i) **Vice-President**, Deenbandhu Chottu Ram Univ. Shaikshik Sangh, Sonipat (affiliated to Akhil Bhartiya Rashtriya Shaikshik Mahasangh) (2020-2021)
- ii) **Life member**, Institution of Engineers (India) since 1991.
- iii) **Life member**, Indian Society for Technical Education since 1990;
- iv) **Life member**, Instrument Society of India since 1993.
- v) **General Secretary**, Electrical Engg. Society at R.E.C. (now N.I.T.), Hamirpur (H.P.) since 1987 & organized under its aegis several Debates, Declamations, Group Discussions & Extempore contests.

**21. MEMBERSHIP OF SELECTION / INSPECTION COMMITTEES:**

- 20.1 Member, Selection Committee for Faculty for G.J. Univ. of Sci. & Tech., Hissar.
- 20.2 Member, Selection Committee for Faculty for M.D. Univ., Rohtak
- 20.3 Member, Selection Committee for Faculty (Prof., Assoc. Prof., Asst. Prof.) for DCR Univ. of Sci. & Tech., Murthal, Sonipat for EE Dept. in 2002, 2006, 2007, 2008, 2009, 2018.
- 20.4 Member, Selection Committee for Faculty (Professors) for DCR Univ. of Sci. & Tech., Murthal, Sonipat for ECE Dept. in 2018.
- 20.5 Nominated (by GJUS&T, Hissar) member for Selection Committee for Om Institute of Tech. & Mgmt., Hissar.
- 20.6 Nominated (by DCRUST, Murthal) member for Selection Committee for BPR Institute of Engg. & Tech., Gohana, Sonipat.

- 20.7 Nominated (by DCRUST, Murthal) member for Selection Committee for International Institute of Tech. & Mgmt., Sonipat.
- 20.8 Member for recognition of Ambedkar Institute of Advanced Communication Technologies & Research, Govt. of NCT of Delhi as Approved Centre of GGSIP Univ., New Delhi (Apr. 2013).
- 20.9 Member, Interview Committee for Ph.D. admissions to I&C Dept., NSIT, New Delhi (Dec. 2013).
- 20.10 Member, Selection Committee for THDC Institute of Hydropower Engg. & Tech. (Constituent Institute of Uttarakhand Technical Univ.), Dehradun (Yr. 2013).
- 20.11 Member, Selection Committee for Faculty of EEE Dept., National Institute of Technology (N.I.T.), Delhi (July 2015).
- 20.12 Chairman, Inspection Committee, PMCE, Kami- yr. 2017?.
- 20.13 Member, Selection Committee for Assoc. Prof. in EED, & for J.E. (Electrical), Central University of Haryana, Mahendergarh, Haryana (2017, Jan. 2018).
- 20.14 Chairman / Member of approx. 40 Screening Committees & Screening-cum-Evaluation Committees at DCRUST, Murthal (2017-19).
- 20.15 Chairman, Inspection Committees of Haryana Govt. (2018).
- 20.16 Member, Haryana Govt. Committee to Examine & Analyze Procurement of Machinery & Equipment for 4 State Engg. Colleges, 23.8.2018.
- 20.17 Chairman, Inspection Committee, B.I.T.S., Mohana, Sonipat on 14.9.2019.
- 20.18 Member, Screening Committee for Faculty selections (Asstt. Prof. & Assoc. Prof.) in EE on 13.1.2020, 16.2.2020 & 6.3.2020 for I.K.G.P.T.U., Jalandhar.
- 20.19 Member, Selection Committee for Professors on 19.3.2020 for I.K.G.P.T.U., Jalandhar.
- 20.20 Subject Expert for Selection Committee for grant of higher AGP Rs. 10000/- under CAS of JCBUST YMCA, Faridabad held via Video Conferencing on 17.8.2020 at 3 p.m. onwards.
- 20.21 Subject Expert for Selection Committee for guest Faculty at S.V. Skill Univ. (A Haryana State Univ.), Gurgaon on 23.9.2020 at 11 a.m. onwards.
- 20.22 Member, Screening Committee for C.A.S. (Assoc. Prof.) in EE on 1.1.2021 for G.J.U.S.T., Hissar.
- 20.23 Member, Selection Committee for Asstt. Prof. on 27.8.2022 at Gurugram Univ. (Govt. of Haryana Univ.), Gurugram.
- 21. OTHER SELECTIONS:**
- 21.1 Selected as Pilot Officer (Ground Duty) in I.A.F. through S.S.B.
- 21.2 Selected as Trainee Engineer in P.N.F.C., Naya Nangal (Pb.).
- 21.3 **Selected as Senior Scientific Officer-II with 5 advance increments over & above pay protection as in Apr. 1990 at I.I.T, New Delhi.** Couldn't join due to bond with REC, Hamirpur which was not transferred despite effort but later stood over w.e.f. 1995.
- 21.4 Selected as Asstt. Professor at REC (now, NIT), Jalandhar (Pb.) and as Asstt. Professor

at G.Z.S.College of Engg. & Technology, Bathinda (Pb.). Couldn't join due to bond with REC, Hamirpur which was not transferred despite effort but later stood over w.e.f. 1995.

- 21.5** Selected as **Professor in Indira Gandhi National Open Univ.**, New Delhi but could not join due to inadequacy of Regular Pension Scheme.

### **REFERENCES:**

- (i) Dr. A.P. Mittal, Former Member-Secretary, A.I.C.T.E., Vasant Kunj, Nelson Mandela Road, New Delhi- 110067 & Director, NSUT (West Campus), N.Delhi; Tel: 98992-49107; Email: mittalap@gmail.com
- (ii) Dr. Har Sarup Chahal, Former Vice-Chancellor, D.C.R. Univ. of Sci. & Tech. (A State Govt. Univ.), Murthal, Sonipat (Haryana); Ph.: 9416067400; Present Address: 601, Tower-3, Vipul Belmonte, Golf Course Road, Sector-53, Gurgaon- 122002 (Haryana); Email: harsarupchahal@gmail.com
- (iii) Dr. Yogesh Singh, Vice-Chancellor, Delhi Technological Univ., Shahbad Daulatpur, Main Bawana Road, Delhi-110042; Tel: 88004-57999, 98180-83101; Email: ys66@rediffmail.com
- (iv) Prof. Dr. Rajenderkumar Anayath, Vice-Chancellor, D.C.R. Univ. of Sci. & Tech. (Haryana State Univ.), Murthal, Sonipat – 131 039; Tel.: 99965-30909, 94675-59000,0130-2484003; Fax.: 0130-2484004; Email: profanayath@gmail.com, vc@dcrustm.org
- (v) Dr. M. Gopal, Ex-Professor & Chairman, EED, I.I.T., Hauz Khas, New Delhi (Presently: Prof. & Director Emeritus, School of Engg., S.N. Univ., Gautam Buddha Nagar, U.P.) Tel.: 09810671537; Email: mgopal@snu.edu.in
- (vi) Dr. Ajay Kr. Sharma, Director, National Institute of Technology (N.I.T.), NH-I, Narela, New Delhi- 110040; (former Vice-Chancellor, PTU, Jalandhar) Tel: 85888-33111; Email: director@nitdelhi.ac.in

### **DECLARATION:**

The above particulars are true to the best of my knowledge & belief.

Signature  
(Dr. JASBIR SINGH)