#### **Profile Page**



Name : Dr Raman Bedi

Designation : Professor

Department : Mechanical Engineering

Qualification : PhD Mechanical Engineering (NIT Jalandhar)

MTech Material Science & Technology (NIT Jalandhar)

BTech (Gold Medalist) Mechanical Engineering (NIT

Jalandhar)

Email : bedir@nitj.ac.in

#### **Research Interests:**

Fatigue of Composite Materials, Creep of Weldments, EBSD Analysis for structure property corelation, Polymer based concrete materials, Artificial Intelligence like Fuzzy and Neuro Fuzzy Inference Systems

#### **Other Profile Links:**

#### Google Scholar Link:

https://scholar.google.co.in/citations?user=7D4ts0YAAAAJ&hl=en Click HereDr Raman Bedi Click Here

#### Personal Web Link:

Research Gate link <u>Click Here</u>
Scopus ID-9536965900 <u>Click Here</u>
ORCID ID <u>Click Here</u>

#### **Journal Publications:**

| Year | Journal                     | Publication   |  |  |  |
|------|-----------------------------|---|--|--|--|
| 2023 | Physica Scripta             | "Investigation of mechanical properties of microwave welded             |  |  |  |
|      |                             | SS304-SS202 lap joints  |  |  |  |
| 2023 | Physica Scripta             | Fatigue life analysis and damage evaluation in Glass Fiber Reinforced   |  |  |  |
|      |                             | Composite materials based on recycled polyethylene terephthalat         |  |  |  |
| 2023 | Composite Communications    | Effect of graphene nanoplatelets on fatigue performance of Glass Fiber  |  |  |  |
|      |                             | Reinforced Composite materials based on recycled polyethylene           |  |  |  |
|      |                             | terephthalate   |  |  |  |
| 2022 | Physica Scripta             | "Comparative performance of various susceptor materials and vertical    |  |  |  |
|      |                             | cavity shapes for selective microwave hybrid heating (SMHH)"            |  |  |  |
| 2022 | Materials Today Proceedings | A Comparative study of interface material through selective microwave   |  |  |  |
|      |                             | hybrid heating for joining metal plates                                 |  |  |  |
| 2022 | Physica Scripta             | Finite element model updating of microwave welded lap joint with direct |  |  |  |
|      |                             | updating algorithm  |  |  |  |

| 2022 | Material Science and Engineering   | Boron addition to P91 steel: Preliminary investigation on microstructural  |
|------|------------------------------------|--|
|      | Technology                         | evolution and microhardness at simulated heat-affected zone  |
| 2022 | IOP Conference Series: Materials   | Finite Element Analysis of Impression Creep on P91   |
| -    | Science and Engineering            | T the state of the |
| 2022 | IOP Conference Series: Materials   | An initial study on the impression creep behaviour of stir-cast GNP  |
|      | Science and Engineering            | reinforced AA6061 composite (AMMC)   |
| 2022 | Journal of Manufacturing           | Microstructural and mechanical properties of circumferentially joined  |
| 2022 | Processes                          | mild steel pipes using selective microwave hybrid heating  |
| 2022 | Materials Today Proceedings        | Influence of process parameters on microwave joining of the  |
| 2022 | Triaterials Today Troccedings      | similar/dissimilar materials: A review   |
| 2021 | The Journal of Strain Analysis for | A novel Approach to Envisage Effects of Boron in P91 Steels through  |
| 2021 | Engineering Design                 | Gleeble Weld-HAZ Simulation and Impression-Creep   |
| 2021 | Materials Today Proceedings        | Tensile properties of Urea treated Rice straw reinforced recycled  |
| 2021 | Waterials Today Froceedings        | Polyethylene terephthalate composite materials   |
| 2021 | Composites -Part B Engineering     | Composite Materials based on recycled Polyethylene terephthalate and   |
| 2021 | Composites -Fait B Engineering     | their properties - A Comprehensive Review  |
| 2021 | Materials Research Express         | 1 1  |
| 2021 | Waterials Research Express         | Predicting the effect of fiber orientations and boundary conditions on the   |
| 2021 | Januari of Manufacturia            | optimal placement of PZT sensor on the composite structures  |
| 2021 | Journal of Manufacturing           | Evaluation of modal characteristics of S202-SS202 lap joint produced   |
| 2020 | Processes                          | using selective microwave hybrid heating   |
| 2020 | Composites: Mechanics,             | Prediction of Mechanical Properties of Epoxy Concrete Using Molecular  |
|      | Computations, Applications, An     | Dynamics Simulation  |
| 2020 | International Journal              |  |
| 2020 | Materials Today Proceedings        | Microwave Joining of similar/dissimilar metals and its characterization:   |
| 2020 | 1                                  | A Review   |
| 2020 | Materials Research Express         | Effects of boron modifications on phase nucleation and dissolution   |
| 2020 |                                    | temperatures and mechanical properties in 9%Cr steels: alloy design  |
| 2020 | Materials Science and Technology   | Microstructural investigations on simulated intercritical heat-affected  |
| 2020 |                                    | zone of boron modified P91-steel   |
| 2020 | Materials Today Proceedings        | Mechanical properties of composite materials based on waste plastic- A   |
|      |                                    | review   |
| 2020 | Materials Today Proceedings        | The casting of materials using microwave energy: A review  |
| 2020 | International Journal of Pressure  | Influence of boron on microstructure and mechanical properties of  |
|      | Vessels and Piping                 | Gleeble simulated heat-affected zone in P91 steel  |
| 2020 | Materials Today Proceedings        | Experimental study to measure the sound transmission loss of natural   |
|      |                                    | fibers at tonal excitations  |
| 2019 | Journal of Structural Engineering  | FLEXURAL FATIGUE ANALYSIS OF PLAIN AND GLASS FIBRE   |
|      |                                    | REINFORCED POLYMER CONCRETE COMPOSITES   |
| 2019 | Materials Today Proceedings        | An Experimental Study to Predict the Exposure Time for Microwave   |
|      |                                    | based Joining of Different Grades of Stainless Steel Material  |
| 2019 | International Journal of Materials | Flexural Fatigue Analysis of Fibre Reinforced Polymer Concrete   |
|      | and Structural Integrity           | Composites under Non-Reversed Loading  |
| 2019 | World Journal of Engineering       | INFLUENCE OF CERAMIC Al2O3 PARTICULATES ON   |
|      |                                    | PERFORMANCE MEASURES AND SURFACE CHARACTERISTICS   |
|      |                                    | DURING SINKER EDM OF STIR CAST AMMCs   |
| 2019 | Journal of Materials Engineering   | Effect of boron addition on creep strain during impression creep of P91  |
|      | and Performance                    | steel  |
| 2018 | Applied NanoScience                | Phase transformations and numerical modelling in simulated HAZ of  |
|      |                                    | nanostructured P91B steel for high temperature applications  |
| 2018 | International Journal of Modern    | IMPRESSION CREEP STUDIES ON SIMULATED REHEATED HAZ   |
|      | Manufacturing Technologies         | OF P91 AND P91B STEELS   |
| 2018 | IJAETMAS, Vol-5, No-1, 2018,       | Fatigue Behavior of short carbon fibre reinforced polymer matrix   |
|      | pp.52-57                           | composites- Review   |
|      | 1^^                                | 1 ^  |

| 2018 | Journal of Structural Engineering   | Reviewing some properties of self compacting concrete with particular reference to flexural fatigue performance  |
|------|-------------------------------------|--|
| 2017 | International Journal of Machining  | EDM machinability and parametric optimization of 2014Al/Al2O3  |
| 2017 | and Machinability of Materials      | composite by RSM   |
| 2016 | in International Journal of         | Adaptive Neuro Fuzzy Inference System in modeling/detecting cracks   |
| 2010 | Experimental Design and Process     | and porosity using Liquid Penetrant Test   |
|      | optimization                        | and porosity using Equitar enormine rest   |
| 2015 | International Journal of Materials  | Damping Studies on fiber reinforced Epoxy Polymer Concrete using   |
| 2013 | Engineering Innovation, 6(1),       | Taguchi Design of Experiments  |
|      | 42-48                               | raguent besign of Experiments  |
| 2014 | Indian Concrete Journal, Vol. 88,   | Reviewing some properties of polymer concrete  |
| 2011 | No. (8), 47-68                      | The viewing some properties of polymer concrete  |
| 2014 | Journal of Advances in Vibration    | Damping Studies on Polyester Polymer Concrete  |
| 2014 | Engineering, Vol 2, No. 1,          | Bumping Studies on Forgester Forginer Concrete   |
|      | pp.47-52                            |  |
| 2014 | ISRN Materials Science, Volume      | Flexural Fatigue Life Assessment and Strength Prediction of Glass Fibre  |
| 2014 | 2014, Article ID 928278             | Reinforced Polymer Concrete Composites   |
| 2014 | Journal of Materials and            | Design Fatigue Lives of Polypropylene Fibre Reinforced Polymer   |
| 2014 | Engineering Structures, Vol. 1, No. | 1 2 2  |
|      | (2), 99-109                         | Concrete Composites  |
| 2013 | International Journal of Materials  | Adaptive neuro-fuzzy inference system in modelling damping   |
| 2013 | Engineering Innovation, Vol 4 (1),  | performance of epoxy polymer concrete  |
|      | 18-34                               | performance of epoxy porymer concrete  |
| 2013 | Journal of Composites, Volume       | Mechanical properties of polymer concrete- A Review  |
|      | 2013, Article ID 948745             | and the state of t |
| 2013 | Journal of Experimental and         | Probabilistic Analysis of Fatigue Life of Polymer Concrete   |
|      | Applied Mechanics, Vol. 4, No.      |  |
|      | (3), 22-28                          |  |
| 2013 | Journal of Research Updates in      | Mechanical characterization of epoxy polymer concrete containing fly   |
|      | Polymer Science, 2(4), 201-08       | ash  |
| 2011 | Occupational Safety Asia,           | Industrial Noise Exposure- A realistic bid to prevent noise induced  |
|      | December 2011, 34-39                | hearing loss   |
| 2010 | Journal of Scientific & Industrial  | Study of hygrothermal ageing on properties of polyester/glass composites   |
|      | Research, Vol 69, 204-207           |  |
| 2009 | Composites Science &                | Fatigue-life distributions and failure probability for glass-fiber reinforced  |
|      | Technology, Volume 69/9,            | polymeric composites   |
|      | 1381-87                             |  |
| 2009 | Industrial Health, Volume 47        | Occupational noise exposure in small scale hand tools manufacturing  |
|      | ,423-430                            | (forging) industry (SSI) in Northern India   |
| 2008 | Computational Materials Science,    | Adaptive neuro-fuzzy inference system in modelling fatigue life of   |
|      | Volume 43, 1086-93                  | multidirectional composite laminates   |
| 2006 | Industrial Health, Volume 44,       | Evaluation of occupational environment in two textile plants in northern   |
|      | 112-116                             | India with specific reference to noise   |
| 2005 | Journal of The Institution of       | A simplified optimum design of axial flow compressor stage   |
|      | Engineers, India Volume-85,         |  |
|      | 169-178                             |  |
|      |                                     |  |

## **Conference Publications:**

| Year | Conference | Publication |
|------|------------|-------------|
|      |            |             |

| 2020 | IVCSAMSEA-2020  | Boron addition to P91 steel: Preliminary investigation |
|------|---|--|
|      |   | on microstructural evolution and microhardness at      |
|      |   | simulated heat affected zone                           |
| 2020 | 10th International Conference of Materials Processing | Mechanical properties of composite materials based     |
|      | and Characterization (ICMPC), GLA Univ, Mathura,      | on waste plastic - A review                            |
|      | INDIA, FEB 21-23, 2020                                | r  |
| 2020 | 10th International Conference of Materials Processing | Microwave Joining of similar/dissimilar metals and its |
|      | and Characterization (ICMPC), GLA Univ, Mathura,      | characterization : A Review                            |
|      | INDIA, FEB 21-23, 2020                                |  |
| 2020 | 10th International Conference of Materials Processing | The casting of materials using microwave energy: A     |
|      | and Characterization (ICMPC), GLA Univ, Mathura,      | review   |
|      | INDIA, FEB 21-23, 2020                                |  |
| 2020 | ICAMSE2020 (International Conference on Aspects       | Experimental study to measure the sound transmission   |
|      | of Materials Science and Engineering) held at Panjab  | loss of natural fibers at tonal excitations            |
|      | University during 29th – 30th May 2020                |  |
| 2019 | CPIE-2019   | EFFECT OF RE-NORMALISING AND                           |
|      |   | RE-TEMPERING ON INTER-CRITICAL HEAT                    |
|      |   | AFFECTED ZONE(S) OF P91B STEEL                         |
| 2019 | ICMSE-2019  | Effect of boron on evolution of nano precipitates in   |
|      |   | singular HAZ of modified P91 (9Cr-1Mo-NbV) steel       |
| 2019 | ICMSE-2019  | Experimental Study to Measure the Equivalent           |
|      |   | Continuous A-Weighted Sound Pressure Level of          |
|      |   | Hemp Material for Train Noise                          |
| 2019 | ICETT-2019 NIT Jalandhar                              | Experimental Study to Measure the Equivalent           |
|      |   | Continuous A-Weighted Sound Pressure Level of          |
|      |   | Natural Fiber-Air-Natural Fiber Materials at           |
|      |   | Broadband Excitations                                  |
| 2019 | 7th International Congress on Computational           | FEM ANALYSIS OF STATIC AND LOW CYCLE                   |
|      | Mechanics and Simulation (ICCMS 2019)-IIT Mandi       | FATIGUE OF CARBON/EPOXY LAMINATES                      |
|      |   | DOUBLE CANTILEVER BEAM (DCB)                           |
| 2019 | International Conference on Materials and             | An Experimental study to predict the posure time for   |
|      | Manufacturing Methods, NIT Trichy                     | microwave based joining of different grades of         |
|      |   | stainless steel material                               |
| 2019 | UKIERI Concrete Congress-2019                         | Effect of silane treatment on the mechanical           |
|      |   | properties of polymer concrete made with recycled      |
|      |   | PET resin and recycled aggregates                      |
| 2019 | UKIERI Concrete Congress-2019                         | Mechanical properties of polymer concrete made with    |
|      |   | natural and recycled aggregates using recycled PET     |
|      |   | resin  |
| 2019 | UKIERI Concrete Congress-2019                         | Recent developments in FRC technology for enhanced     |
|      |   | impact resistance properties: Innovations &            |
|      |   | Opportunities  |
| 2018 | 19th ISME Conference- Advances in Mechanical          | Natural Fiber composites for sound reduction- A short  |
|      | Engineering   | review   |
| 2018 | 19th ISME Conference- Advances in Mechanical          | EBSD ANALYSIS OF SIMULATED                             |
|      | Engineering   | INTER-CRITICAL HEAT AFFECTED ZONE OF                   |
|      |   | BORON MODIFIED P91 STEEL                               |
| 2018 | National Conference on Advanced Materials,            | Effect of boron modified microstructure on             |
|      | Manufacturing And Metrology                           | impression creep behaviour of simulated multi-pass     |
|      | -   | heat affected zone of P91 steel                        |
| 2018 | CPIE-2018, Bangkok                                    | Investigation of impression creep deformation          |
|      | _   | behaviour of boron modified P91 steel by high end      |
|      |   | behaviour of boron modified F91 steel by high end      |

| 2017     | International Congress 2017 of the International      | METALLURGICAL INVESTIGATIONS ON DUAL                 |
|----------|---|--|
|          | Institute of Welding, Chennai                         | HEAT CYCLED BORON ALLOYED P91                        |
|          |   | FERRITIC/ MARTENSITIC STEEL                          |
| 2016     | 9th International Concrete Conference, 4-6 July 2016, | Flexural Fatigue of Plain and Glass Fibre Reinforced |
|          | Dundee, Scotland                                      | Polymer Concrete Composites                          |
| 2013     | ISOM-2013, 26-28 June 2013, Reduit, Mauritius         | Fiber Reinforced Polymer Concrete- An Alternative    |
|          |   | Material for Machine Construction                    |
| 2012     | International Symposium of Advanced Polymeric         | Studies on Mechanical Characteristics of Epoxy       |
|          | Materials, 7-12 July 2012, Kuala lumpur, Malaysia     | Polymer Concrete containing Fly Ash                  |
| 2010     | 2nd International Conference on Polymer Processing    | Studies on effect of constituents on the damping     |
|          | & Characterization, January 15-17, 2010, Kottayam,    | performance of Epoxy Polymer Concrete                |
|          | India   |  |
| 2010     | VETOMAC-VI, 13-15 December, 2010, IIT Delhi           | Damping Studies on Polyester Polymer Concrete        |
| 2010     | 16th ISME Conference, 02-05 December, 2010, IIT       | Studies on Mechanical Behavior of Epoxy Concrete     |
|          | Delhi   |  |
| 2009     | 24th Indian Engineering Congress. 10-13 December      | Parametric Evaluation of Damping of Polyester        |
|          | 2009, NIT Suratrhkal                                  | Concrete using Taguchi Design of Experiments         |
| 2008     | ECCM-13, 2nd -5th June 2008, Stockholm, Sweden        | Modelling Fatigue Life of Composite Laminates with   |
|          |   | ANFIS  |
| 2007     | ECCOMAS Thematic Conference on Mechanical             | Fatigue Life determination of Pultruded Glass Fiber  |
|          | Response of Composites, COMPOSITES-2007, Porto,       | Reinforced Composites                                |
|          | Portugal  |  |
| 2006     | Fourteenth NASAS National Seminar on Aerospace        | Probabilistic Fatigue Life Analysis of Glass Fiber   |
|          | Structures, January 30-31, 2006, Dept. of             | Reinforced Composites using Weibull Distribution     |
|          | Metallurgical and Materials Engg., VNIT, Nagpur       |  |
| (June    | 7th International Symposium TRANSPORT NOISE           | Effect of impact noise on humans- A case study for   |
| 8-10,200 | AND VIBRATIONS, St. Petersburg, Russia, Paper         | drop forge hammers                                   |
| 4)       | No- S3-8  |  |
|          |   |  |

## ${\bf Book/Chapter\ Publications:}$

| Type        | Title                               | Publisher    | Authors          | ISBN/ISS  | Year |
|-------------|-------------------------------------|--------------|------------------|-----------|------|
|             |                                     |              |                  | N No.     |      |
| Book        | Effect of Re-normalizing and        | Springer     | Modassir Akhtar, | ISBN      | 2020 |
| Chapter     | Re-tempering on Inter-critical Heat |              | Akhil Khajuria,  | 978-981-1 |      |
|             | Affected Zone(S) of P91B Steel      |              | and Raman Bedi   | 5-4618-1  |      |
|             | Proceedings of UKIERI Concrete      | UKIERI India | R K Dhir, S P    | 978935351 | 2019 |
|             | Congress- 2019                      |              | Singh, Raman     | 2620      |      |
|             |                                     |              | Bedi, Sanjay     |           |      |
|             |                                     |              | Goel             |           |      |
| Book        | INVESTIGATION OF IMPRESSION         | Springer     | Raman Bedi,      |           | 2018 |
| Chapter     | CREEP DEFORMATION BEHAVIOUR         |              | Akhil Khajuria   |           |      |
|             | OF BORON MODIFIED P91 STEEL BY      |              |                  |           |      |
|             | HIGH END CHARACTERIZATION           |              |                  |           |      |
|             | TECHNIQUES                          |              |                  |           |      |
| Proceedings | Proceedings of UKIERI Concrete      | Excel India  | Ravindra K Dhir, | 978938486 | 2015 |
|             | Congress- 2015                      | Publishers   | S P Singh,       | 9823      |      |
|             |                                     |              | Raman Bedi,      |           |      |
|             |                                     |              | Sanjay Goel      |           |      |

| Proceedings | Proceedings of CPIE-2007 | Arvind         | 2007 |
|-------------|--------------------------|----------------|------|
|             |                          | Bhardwaj, Ajay |      |
|             |                          | Gupta, Raman   |      |
|             |                          | Bedi, Vishal S |      |
|             |                          | Sharma         |      |

# **Events Organized:**

| Category                     | Type          | Title   | Venue          | From       | To         | Designation                        |
|------------------------------|---------------|---|----------------|------------|------------|------------------------------------|
| STC                          | National      | Low Cost Hi-Tech<br>Automation                                      | NIT Jalandhar  | 5-6-2006   | 9-6-2006   | Coordinator                        |
| Conference                   | International | CPIE-2007, Global Conference on Production & Industrial Engineering | NIT Jalandhar  | 22-3-2007  | 24-3-2007  | Co-Conveno<br>r                    |
| STC                          | National      | Perspective of Welding<br>Technology                                | NIT Jalandhar  | 28-12-2009 | 2-1-2010   | Co-Coordin ator                    |
| STC                          | National      | Welding- Roadmap to Excellence                                      | NIT Jalandhar  | 27.12.2010 | 31.12.2010 | Co-Coordin ator                    |
| Conference                   | International | UKIERI Concrete<br>Congress- 2013                                   | NIT Jalandhar  | 5.3.2013   | 8.3.2013   | Member-<br>Organising<br>Committee |
| Conference                   | International | UKIERI Concrete<br>Congress- 2015                                   | NIT Jalandhar  | 2-11-2015  | 5-11-2015  | Member-<br>Organising<br>Committee |
| STC                          | National      | Recent Advances in<br>Concrete Composites                           | NIT Jalandhar  | 16-12-2013 | 20-12-2013 | Coordinator                        |
| STC                          | National      | Recent Trends in<br>Materials Research                              | NIT, Jalandhar | 15-12-2017 | 19-12-201  | Coordinator                        |
| STC                          | National      | Advances in Concrete<br>Composites                                  | NIT Jalandhar  | 22-12-2017 | 26-12-2017 | Coordinator                        |
| Workshop                     | National      | Technical Workshop on Scientific Paper Writing                      | NIT, Jalandhar | 29.5.2018  | 29.5.2018  | Coordinator                        |
| Workshop                     | National      | Curriculum Review<br>Workshop                                       | NIT Jalandhar  | 14.7.2018  | 14.7.2018  | Coordinator                        |
| Faculty Developmen t Program | National      | Pedagogical Skills for<br>Teachers                                  | NIT Jalandhar  | 22.7.18    | 23.7.18    | Coordinator                        |
| Conference                   | National      | 19th ISME Conference  | NIT Jalandhar  | 20-12-2018 | 22-12-2018 | Joint<br>Secretary                 |
| Conference                   | National      | UKIERI CONCRETE<br>CONGRESS   | NIT Jalandhar  | 5.3.2019   | 8.3.2019   | Secretary                          |
| STC                          | National      | Material<br>Characterization<br>Techniques                          | NIT Jalandhar  | 17-06-2019 | 21-06-2019 | Coordinator                        |
| GIAN                         | International | Fatigue of Composite  | NIT Jaalandhar | 11-11-2019 | 15-11-2019 | Coordinator                        |
| Program                      |               | Materials   |                |            |            |                                    |
| Expert<br>Lecture            | National      | Expert Lecture on "XRD Data Analysis using HighScore"               | NITJ           | 28-02-2020 | 28-02-2020 |                                    |
| STC                          | National      | Material Characterization Techniques                                | NIT Jalandhar  | 24-8-2020  | 28-8-2020  | Convenor                           |

| STC      | National | Advanced Techniques    | NIT Jalandhar | 25-10-2021 | 29-10-2021 | Convenor    |
|----------|----------|------------------------|---------------|------------|------------|-------------|
|          |          | of Material            |               |            |            |             |
|          |          | Characterization for   |               |            |            |             |
|          |          | Research               |               |            |            |             |
| Workshop | National | Hands on Workshop on   | NITJ          | 25-05-22   | 27-05-22   | Convenor    |
|          |          | Field                  |               |            |            |             |
|          |          | Emission-Scanning      |               |            |            |             |
|          |          | Electron Microscopy    |               |            |            |             |
|          |          | with EDS and EBSD      |               |            |            |             |
|          |          | Analysis (Hybrid mode) |               |            |            |             |
| STC      | National | DST Sponsored          | NIT Jalandhar | 19-09-2022 | 25-09-2022 | Coordinator |
|          |          | Synergistic Training   |               |            |            |             |
|          |          | Program Utilizing the  |               |            |            |             |
|          |          | Scientific and         |               |            |            |             |
|          |          | Technological          |               |            |            |             |
|          |          | Infrastructure (STUTI) |               |            |            |             |
| STC      | National | 5-Days Hands on        | NIT Jalandhar | 12-09-2022 | 16-09-2022 | Convenor    |
|          |          | Workshop and Training  |               |            |            |             |
|          |          | on Triple-Quad ICP-    |               |            |            |             |
|          |          | MS, FESEM, EDS and     |               |            |            |             |
|          |          | EBSD Analysis          |               |            |            |             |
| STC      | National | DST Sponsored          | NIT Jalandhar | 6-2-23     | 12-2-23    | Convenor    |
|          |          | Synergistic Training   |               |            |            |             |
|          |          | Program Utilizing the  |               |            |            |             |
|          |          | Scientific and         |               |            |            |             |
|          |          | Technological          |               |            |            |             |
|          |          | Infrastructure (STUTI) |               |            |            |             |

## **Professional Affiliations:**

| Designation              | Organization                             |
|--------------------------|--|
| Member (2006-08)         | European Society of Composite MAterials  |
| Member (2008-10)         | European Society of Composite Materials  |
| Fellow                   | Institution of Engineers, India          |
| Member                   | Materials Research Society (USA)         |
| Member                   | Indian Society of Mechanical Engineering |
| Member (2022- till date) | European Society of Composite Materials  |

## PhD Supervised:

| Scholar Name  | Research Topic                                    | Status  | Year | Co-Supervisor     |
|---|---|---------|------|-------------------|
| Akhil Khajuria  | Effect of boron modification on microstructure in | Ongoing | 2015 | Dr Rajneesh Kumar |
| (PhD) HAZ of P91 steel for better resistance to type IV |   |         |      |                   |
|   | cracking  |         |      |                   |
| Pankaj Sadaa  | Fatigue Studies on Hybrid Composites              | Ongoing | 2014 | Dr Pramod Kumar   |
| (PhD)   |   |         |      |                   |

# Admin. Responsiblities:

| Position Held                 | Organization  | From       | То        |
|-------------------------------|---------------|------------|-----------|
| Deputy Registrar              | NIT Jalandhar | March 2012 | July 2013 |
| (Academics)-Additional Charge |               |            |           |
| Associate Dean (Academic-UG)  | NIT Jalandhar | 30.1.2015  | 8.2.2018  |

| PI (Examination)                | NIT Jalandhar | 9.2.2018   | 24.1.2019  |
|---------------------------------|---------------|------------|------------|
| Associate Dean (Academic-PG)    | NIT Jalandhar | 9.2.2018   | 24.1.2019  |
| Associate Dean -Faculty Welfare | NIT Jalandhar | 24.01.2019 | 06.01.2020 |
| Head- Institute Instrumentation | NIT Jalandhar | 16.01.2020 | Till Date  |
| Center                          |               |            |            |

### **Award and Honours:**

| Title                 | Activity | Given by       | Year |
|-----------------------|----------|----------------|------|
| Best Teacher Award    |          | NIT Jalandhar  | 2019 |
| University Gold Medal | BTech    | GNDU, Amritsar | 1996 |