

INTERNATIONAL (National) RESEARCH PUBLICATIONS:

- 1 Generalized thermo elastic waves in Homogeneous isotropic plates. J.N. Sharma, Rajneesh Kumar, Devinder**Singh** (Published). *J. Acoustic. Soc of America* (2000) 108,848-851, 2, USA, (IF1.50)0001-4966(SCI)
- 2 Generalized thermoelastic waves in circular crested homogeneous isotropic plate. (Published), J.N. Sharma, Devinder **Singh**, *J Thermal stresses*, 25, 1179-1193, USA (2002) (IF0.992)978-94-007-2738-0(SCI)
- 3 Propagation of Thermoelastic waves in homogeneous isotropic plates (Published). J.N. Sharma, Rajneesh Kumar, Devinder**Singh** *Indian J. Pure and applied Mathematics*, 31, 1167-1181, (2000) INDIA, 0019-5588(SCI)
- 4 Generalized thermoelastic waves in transversely isotropic plates. (Published) J.N. Sharma, Rajneesh Kumar, Devinder**Singh**, *Indian J. Pure and applied Mathematics* 34,841-852, (2003) INDIA, 0019-5588(SCI)
- 5 Propagation of thermoelastic waves in transversely isotropic plates (Published). J.N. Sharma, Devinder**Singh**, **Proceedings** (2003) 1,278-298, INDIA
- 6 Rayleigh Lamb Wave Propagation in visco thermo-elastic Plates, (Published), J.N. Sharma, Rajneesh Kumar, Devinder**Singh**, *J Thermal stresses* 27,645-668, USA (2004), 978-94-007-2738-0(SCI)
- 7 Propagation of Rayleigh Lamb wave in thermomicrostretch elastic plate, J.N. Sharma, Rajneesh Kumar, Devinder**Singh**. *Int. J. Applied Mechanics and engg*, 12, 4, 1147-1164, (Published 2007), POLAND (IF1.624)0973-9424(Scopus)
- 8 Some Consideration on the Rayleigh- Lamb waves propagation in Micropolar-generalized thermoelastic plates, *Int. J. of Mathematical Sciences and Engg. Application*, 139-156, 3, 1, (Published). 2009. INDIA (IF0.5250)2231-3478
- 9 Influence of Gravity in a rotating generalized thermoelastic medium with two temperatures subjected to Ramp type heating and loading. *Int. J. of. ultra-Scientist for Physical Sciences* 327-342, 21, 2(Published) 2009.INDIA, 1573-6105
- 10 Hybrid Satisfiability techniques, *International J. of Engineering Research and Industrial applications*. 323-333, 2, V. (Published) 2009.INDIA, 2448-9622
- 11 Three-Dimensional Modeling, Recognition and Reconstruction of 3D Images, *International J. of Engineering Research and Industrial applications* ,233-246,2, V(Published) 2009.INDIA, 2448-9622
- 12 Image restoration using wavelet transformations, **Int. J. of Ultra Scientist for Physical Sciences**, 623-632, 21, 2, (Published) 2009, INDIA, 2319-8044
- 12(a) Better edggap in grayscale image using Gaussian method, *Int J. Of computational and Applied Mathematics*, DSPathania, S.K.Singla, Pardeep Kumar, 53-65, 5, 1, 2010, ISSN No.1819-4966, INDIA.
- 13 Effect of rotation in the generalized thermoelastic medium with two temperatures under hydrostatic initial stress and gravity, Praveen Ailawalia, Devinder **Singh**, Sunit Goel, and **Int. J. of Multidiscipline Modeling in Materials and Structures** (Published) Vol.6, No.2.2010-11, U.K(Scopus)
- 14 Slender beams under aerodynamic couplings, Devinder**Singh**, **International J. of mathematical Sciences and Engg. Applications**. 305-403, 2012. (Published), INDIA (UGC care List)

- 15 A problem in microstretch thermoelastic diffusive medium, Devinder Singh, ArbindKumar, **Int.J. of Mathematical, Computational science and Engineering**, Vol: 8, No.1 2014(Published)(UGC)
- 16 Some consideration in Microstretch thermoelastic diffusive medium with mass diffusion, Devinder Singh, ArbindKumar, *IPCSIT* vol.59, 2014, pp94-100
- 17 Interaction of Laser beam with Micropolar Thermoelastic Solid, Rajneesh Kumar, Arbind Kumar, Devinder Singh, **Int.J. Of. of Advances in Physics theories and Applications**, Vol.40 pp10-15 2015(Published)
- 18 Published research paper entitled “Two dimensions fibre Reinforced micropolar thermoelastic problem for half space subjected to mechanical force “Praveen Ailawalia and Sunil Sachdeva, Devinder Singh,**Int.J.of. Theoretical and applied Mechanics**” vol.42 (2015) ,1,11-25. (*Scopus*)
- 19 Published research paper entitled “Two-dimensional deformation in microstretch thermoelastic half space with micro temperatures and internal heat source” PraveenAilawalia,Sunil Sachdeva, Devinder Singh,**Int.J.of. Cogent Mathematics, (Online Thermal stresses)** pp1-15(2015) USA.1-15(*Scopus*)
- 20 Published research paper entitled” Thermo mechanical interactions due to laser pulse in microstretch thermoelastic medium” with Rajneesh Kumar, Arbind Kumar, Devinder Singh ,**Arch.Mech.**47 ,6, 1-18 Warszawa, (2015),POLAND. (*Scopus*)
- 21 Published research paper entitled “Plane strain deformation in a thermoelastic micro elongated solid with internal heat source “Devinder Singh, Praveen Ailawalia, Sunil Sachdeva, **Int.J.of Applied Mechanics and Engg.** vol.20.No.4 pp717-731. (2015) POLAND(*Scopus*)
- 22 Published a research paper entitled “Interaction due to hall current and rotation in magneto-micropolar fractional order thermoelastic half space subjected to Ramp-type heating” Rajneesh Kumar, Kulwinder Singh, Devinder Singh, **Int.J. of Multidiscipline modeling in materials and structure.** (2016) ,12,1,2016, ISSN No. 1573-6105(*Scopus*)
- 23 Published a research paper entitled “Internal heat source in thermoelastic micro elongated solid under Green Lindsay theory “, Praveen Ailawalia, Sunil Sachdeva, DevinderSingh, **Int. Journal of theoretical and applied mechanics, sifia,** and vol.46.no.2 pp 65-82. (2016),1429-2955(*Scopus*)
- 24 Published a research paper entitled” A problem on mathematical interactions due to ultra-thermal laser source in micropolar mass diffusion material by using Laplace and Fourier transform, with Arbind Kumar in **Int J. of Statistics and Applied Mathematics**,43-48 1(3) (2016), 0973-1377
- 25 Published a research paper entitled “Laser pulse heating in thermomicrostretch layer overluing thermoelastic half space, Parveen Ailawalia, Sunil Sachdeva, Devinder Singh, **Journal of Applied Physical Science International.** (2017) (*Scopus*)
- 26 Published a research paper entitled “Elastic Plastic Stress Analysis in a Spherical Shell under internal pressure and steady state temperature” Pankaj Thakur, D.S. Pathania, Gaurav Verma, Satya Bir Singh”, **Structural Integrity and Life**, Vo.17. No.1, 2017.pp39-43 (Belgrade) (*Scopus*)

- 27 Published a research paper entitled "Thermal creep analysis in NON-Homogeneous spherical Shell" Pankaj Thakur, D.S. Pathania, Gaurav Verma, Satya Bir Singh", **Structural Integrity and Life**, Vo.17.No1(Belgrade) (*Scopus*)
- 28 Published a research paper "Response of thermoelastic Micropolar cubic crystal" Praveen Ailawalia, Sunil Sachdeva, DevinderSingh, **Int.J. Of. Of Applied Mechanics and Engg.2017, Vol. 22, 1, pp 5-23.** (*Scopus*)
- 29 Published a research paper "Thermal creep stress and strain analysis in non-homogeneous shell" G.Verma, Devinder Singh, Pankaj, SB. Singh" **Int J of Theoretical and applied Mechanics.55,1155-1165,2017, WARSAW.** (*Scopus*)
- 30 Published a research paper "Elastic Plastic Transition on rotating spherical shells in dependence of Compressibility Thakur, G Verma, D.S. Pathania. S.B.Singh, **Kragujevac.J.(39) ,5-16(2017).** (*Scopus*)
- 31 Published a research paper "Effect of mechanical force along the interface of semi-infinite semiconducting medium and thermoelastic micropolar cubic crystal" Devinder Singh, Sunil Sachdeva, Ailawalia, <http://dx.doi.org/10.1080/23311835.2017.1347991>, **COGENT MATH Journal. (2017)** (*Scopus*)
- 32 Published a paper "Plain strain problem in Rotating Microstretch Thermoelastic solid with micro temperature" **J theoretical and Applied Mechanics "Vol.44, 1,51-82,2017(Scopus)**
- 33 Published a research paper "Elastodynamic interactions of laser pulse in microstretch thermoelastic mass diffusion medium with dual phase" Devinder Singh, Rajneesh Kumar, Arbind Kumar, **Micro cyst Technical (Springer-Verlag GmbH Germany)2017.** (Online) (*SCI*)
- 34 Published a research paper "Propagation of Rayleigh waves in micropolar thermoelastic half space with impedance boundary conditions" Rajneesh Kumar, KulvinderSingh, Devinder Singh Pathania in journal '**Materials Physics and Mechanics', 35,115-125.2018(Scopus)**
- 35 Published a research paper entitled "Dynamical properties of piezoelectric microstretch solid **subjected** to laser and ramp type heating source" **Int.J. of mathematical Archive-8(12),1-9,2017.**
- 36 Published a research paper "On Homogeneity effect in spherical shell using Seth theory "Pankaj Thakur, G. Verma, J.L. Sajic, **Structural Integrity and Life**, Vol.17,3, pp177-182,**2017(Scopus)Belgrade Serbia**
- 37 Published a research paper entitled "Thermo mechanical Properties of Piezoelectric microstretch Solid Irradiated by Laser and Subjected to Ramp type heating source" **IUP journal of Mech.Engg. vol.11,2,38-57,2018**
- 38 Published research paper entitled "Mechanical disturbances in a micropolar plate due to Hall current, rotation and thermal laser heat source" with Arbind Kumar, **To Physics journal, vol.1,1,28-37,2018.**
- 39 Published a research paper "Analysis of plane deformation in thermodiffusive microstretch and micropolar media in context of GL and LS theories of thermoelasticities" with Arbind Kumar, **Structural Integrity and Life, Vol.18,23-30,2018.** (*Scopus*)**Belgrade Serbia**
- 40 Published a research paper "Regular Intuitionistic fuzzy graph structure" Int. J. for research an applied science and Engg. Technology, **RASET, Vol.6, IV, April, (2018), 2321-9653, (IF;6.887)**
- 41 Published a research Paper entitled "Intuitionistic fuzzy supplement and intuitionistic fuzzy

closed sub modules” Int.J. of latest trends in information and technology. **Vol.10,2, pp,061-066,42**

42 Published a research paper entitled ‘Intuitionistic Fuzzy small sub module with respect to an arbitrary intuitionistic fuzzy sub module” CiiT int j of fuzzy system, 225-229, Vol.10, No.10, **2018**

43 Published, a paper “Temperature and pressure depend dependent creep stress analysis of spherical shell” with Gaurav Verma, in Int.J. Of applied mechanics and Engg, vol.24, No1, pp105-115, **2019 (ESCI)**

44 Published a research paper “Effect of Micro polarity on the propagation on shear waves in a piezoelectric layered structure” ISSN (Print): 2008-3505, Vol.11, No.1, **J of Solid Mechanics, Rajneesh Kumar, Kulwinder Singh, 2019(Scopus)**

45 Published a research paper entitled” Shear wave propagation in an initially stressed piezoelectric layer imperfectly bonded over micropolar elastic half space” **Rajneesh Kumar, Kulwinder Singh, Int.J. Of structural Engg and Mechanics**, vol.69, no.2, 121-129, **2019(SCI)**

46 Published a research paper Entitled “Thermo-mechanical behavior of Microstretch Thermoelastic Medium with Micro temperatures subjected to input heat source” Arbind Kumar, **Structural Integrity and Life**, Vol.18, No.2, 121-127, 2018(**Scopus**) **Belgrade Serbia**

47 Published a research paper entitled “A study of Thermo-mechanics of magneto-micropolar thermoelastic half space” **Structural Integrity and Life**, Vol.18.No. 3(2018), 193-196. (**Scopus**) **Belgrade Serbia**

48 Published research paper” Electro dynamical disturbances due to laser irradiation in microstretch thermodynamic medium with micro temperatures” **Journal of Mechanics and Mechanical engineering, with Arbind Kumar, 23, 2019, 103-** (ESCI)

49 Published research paper “Thermo mechanical analysis of magneto micropolar solid subjected to thermal laser source, P.K. Ailawalia, DevinderSingh, ArbindKumar” **Application and applied mathematics, vol.13,2, 2018, ISSN(p) : 1932-9466(Scopus)**

50 Published A paper titled”Elastic plastic stress analysis of spherical shell under internal and external pressure “**Structural Integrity and Life** Vol.19.No.1,3-7, **2019(Scopus) Belgrade Serbia**

51 **Published** a research paper “A two dimensional problem on laser pulse heating in thermoelastic micro elongated solid” **Archives of thermodynamics**, vol.40, 2, 69-85, **2019, ICI world of Journals(Poland)1231-0956(print)**

52 Published a research paper entitled “Elastodynamic behavior due to mechanical forces in microstretch thermoelastic half-space with two-temperature” **J structural integrity and life**, 2019. (**Scopus**) **Belgrade Serbia**

53 Published a research paper entitled “Thermo mechanical Properties of Piezoelectric microstretch Solid Irradiated by Laser and Subjected to Ramp type heating source” **IUP journal of Mech. Engg., vol.11,2,38-57,2018.**

54 Published a research paper “Effects of Hall current and rotation in a fractional ordered magneto-micropolar thermoviscoelastic half- Space due to Ramp-type heat” **International Journal of Applied and Computational Mathematics.(2020) 2349-5103(SCOPUS)Springer**

55 Published a research paper entitled “Response of thermomechanical sources in fractional order microelongated thermoelastic circular plate” J. of the Gujarat research society, 21, 8s, 2019 **UGC-CARE List Group: Group D, ISSN: 0374-8588, Impact Factor: 4.3**

56 Published e research paper entitled “On mechanical and magnetic forces in micropolar diffusion solid” Applied Mathematical sciences, **2020**, ISSN no. 1314-7552, doi:10.12988/ams ,IF=0.17 (**Italy**)

58 Elastodynamic behavior of generalized microstretch thermoelastic mass diffusion medium subjected to mechanical forces and pulsed heating J. structural integrality and life (**communicated**) **2020** Belgrade Serbia (**Scopus**)

59 Thermal creep stress analysis of functionally graded spherical shell under and external pressure (**Communicated**) **2020** March. Belgrade Serbia (**Scopus**)

CONFERENCES:

1 Presented a research paper in the National Conference on Mathematical analysis and applications held at HPU Shimla. **INDIA (2000)**

2 Presented a research paper in the National Conference on Engg. Mathematics at IET Bhaddal **(2001). INDIA**

3 Presented a research paper in the National Conference on Mathematical & Statistical Techniques at TIET Patiala. **(2001) INDIA**

4 Presented a research paper in the 46th Congress of ISTAM (**International Meet**) held at NIT Hamirpur. **(2001) INDIA**

5 Presented a research paper in the National Conference on Joint 9th National Conference of The Vigyan Parishad of India on Applied and Industrial Mathematics and 5th Annual Conference of Indian Society of Information Theory And applications NSIT New-Delhi. **(2002) INDIA**

6 Presented a research paper in the Sixth Punjab Science Congress at SLIET Longowal **(2003) INDIA**

7 Presented a research paper in the National Conference on Industrial Mathematics and Engineering Computation at IET Bhaddal. **(2003) INDIA**

8

9 Presented a research paper “use of monte carlo” in the National Conference at IET Bhaddal. (ECSN) **(2003) INDIA**

10

12 Presented a research paper in National conference in Applied Mathematics at Guru Nanak dev Engg. College Ludhiana, 30 Nov.-01 Dec **2007. INDIA**

13 Presented a research paper in the 11th Punjab Science Congress at Thapar University Patiala **(2008) INDIA**

14 Presented a research paper in the **International conference** held at Chitkara Engg. College Jhasala on 18th Oct. **2008. INDIA**

15 Presented a research paper in National conference in Applied Mathematics at NIT Hamirpur from 19Dec-21Dec **2008. INDIA**

- 16 Presented a research paper in 12th Punjab science Congress held at P.A.U.Ludhiana in **2009. INDIA**
- ❖ Attended National Seminar on Continuum Mechanics and Algebra (UGC Sponsored) held at HPU Shimla on 7th-8th August **2009. INDIA**
- 17 Presented a research paper in 55th**ISTAM (International meet)** held at NIT Hamirpur from 18 Dec-21 Dec. **2010. INDIA**
- 19 Presented a research paper in the **International conference** held at GNDEC Ludhiana on 20 Dec.- 22 Dec. **2010 (ISBN: 978-81-8465-360-1.) INDIA**
- 20 Presented a research paper at Punjab Science congress held at SLIET Longowal on 7-9 Feb. **2011. INDIA**
- 21 Presented a research paper in second National conference in **RAECT-11** held at GNDEC Ludhiana on 4-5th March **2011. INDIA**
- 22 Presented a research paper in **NCETMA-2012** (UGC Sponsored) held at D.A.V. College Jalandhar on 4-6 Feb. **2012 INDIA**
- 23 Presented a research paper at Punjab Science congress held at Guru Nanak Dev University Amritsar 7-9 Feb. **2012. INDIA**
- 24 Presented a research paper in the **International conference** recent trends in computing, mechatronics, comm. Feb. 25-26 held at OITM, Hissar **2012 INDIA**
- 25 Presented a research paper in National Conference “Challenges In Emerging Computer Technologies” on **May 16-17, 2012** at Rayat-Bahra Institute of Engineering and Bio-Technology, Mohali Campus. **INDIA**
- 26 Presented a paper in 16th Punjab Science congress on 7-9 Feb. **2013** held at Baba Farid Health University Faridkot. **INDIA**
- 27 Presented a paper in National conference on Geotechnical and GeoEnvironmental Aspects of wastes and their utilization in infrastructure Projects on 15-16 Feb. **2013** at GNDEC Ludhiana. **INDIA**
- 28 Presented a research paper in the state seminar (UGC Sponsored) on Algebra, Number theory and their application on March 16, **2013** at SDP College Ludhiana. **INDIA**
- 29 Presented paper in third National conference (DST, TEQIP-II, Sponsored) on **RAECT-13** held on 21-22 March **2013** at GNDEC Ludhiana **INDIA**
- 30 Presented a paper (By Research Scholar) in National conference on Advances in Mathematics held at NIT Hamirpur on 25-27 June **2013. INDIA**
- 31 Presented a paper in the **International conference ICMTSET-13** held in **Dubai** on 24-25 Sept. **2013. UAE**

- 32 Presented a paper in an **International conferenceICRIME-2013** held at GNDEC Ludhiana on 24-26th Oct.**2013. INDIA**
- 33 Presented a Paper in National Seminar on Interdisciplinary Approach in Science in emerging Scenario held at VC Bhiwani March**2014. INDIA**
- 34 Presented a research paper in an **International conferenceICMP-2014**held at Chennai on March17-18, **2014.. INDIA**
- 35 Presented) a paper in **International conferenceICMSOT2015** held at DAV College JalandharFeb12-14.**2015. INDIA**
- 36 Devinder Singh, Rajneesh Kumar, ArbindKumar, published a paper in National conference **CONIAPSXVII** held at Rajasthan University Jaipur **2015**, pp43. **INDIA**
- 37 Devinder Singh, Rajneesh Kumar, Arbind Kumar Published a paper in International conference **ESTEEM** held at PPIMT HissarPp17, 2015. **INDIA**
- 38 Devinder Singh, Rajneesh Kumar, ArbindKumar, published a paper in **NCETMS-15** held at CDLU Sirsa **2015** pp36. **INDIA**
- 39 Devinder Singh, presented a paper in the **International ConferenceICMCSSE-15** held in **Dubai** on 17-18 Oct.**2015.UAE**
- 40 Devinder Singh Presented a paper in **International Conference, ICM-2015** on Mathematics at Kerala University, Trivandrum, 26-28, Nov**2015. INDIA**
- 41 Devinder Singh presented a paper in **International Conference, ICFAS-2016**, on Mathematics held in Kuala Lumpur (Malaysia), from 15-17 August **2016**.
- 42 Devinder Singh presented a paper in **International Conference, ICLISEM-16**, on Mathematics held in Goa (INDIA) on 9th Oct **2016**.
- 43 Devinder Singh presented a paper in **International** conference, **ICRTESM-17**on Mathematics held in NITTTTR Chandigarh on 8th Jan **2017**.
- 44 Devinder Singh Presented a paper in **Int.conferencesSCAWC-17** held at GNDEC Ludhiana on March 9-11, 2017.
- 45 **Devinder Singh** presented a research paper entitled "Implication of Intuitionistic fuzziness over graph structure" on March 11,2017 in UGC sponsored National conference on communication and computing technologies held at Apeejay college of fine arts Jalandhar.
- 46 Devinder Singh presented a paper in an **Int.Conf** on Skill and Mgt.and Applied Sciences held at SCD Govt.College Ludhiana on 24-25/4/2017.
- 47 Devinder Singh presented are research paper in an **Int.conferences** held at C-DAC Mumbai on 19 aug.2017

- 48 Presented a research paper in 10th**international conference** ICRDESHM'17 held at Chandigarh on DEC 24 2017.and was adjusted the **MOST OUTSTANDING PAPER** in conference.
- 49 Presented a paper in **Int.Conf** “Recent advances in fundamental and applied sciences”AIP conference proceeding 1860,020068(2017)
- 50 Presented a research paper in a National Conference (RTIPAM-2018) Held at DAV College Jalandhar held on 24 Feb.**2018**.
- 51 Presented a research paper in the **International conference** (MICSMAS-2018) held on 10-11 March **2018** at SCD Govt. College Ludhiana.
- 52 Presented a research paper in the **Int. conference** (ICSTTC-2018) held on 16-17 April **2018** at GGNKC Ludhiana. (creep analysis in a spherical shell under pressure)
- 53 Presented a research paper in the **Int. conference** (ICSTTC-2018) held on 16-17 April **2018** at GGNKC Ludhiana (On Mathematical model of Rayleigh waves in microstretch thermoelastic medium with two temperatures)
- 54 Presented a paper in the **4th International conference** on research developments in applied science, Engg. And management held at institution of engineers, Chandigarh on **3rdNov.2018**.

WORKSHOPS AND SHORT-TERM COURSES ATTENDED:

- 1 **Attended** ISTE workshop on “Human Values in Tech. Education” sponsored by AICTE at IET Bhaddal (2002).
- 2 **Attended** Short-term training programme on advanced computational tools for Engineers held at Guru Nanak Dev Engg. College Ludhiana on June 25th to July 01, 2007.
- 3 **Attended** Short-term training programme on Creativity and innovation held at GNDEC Ludhiana on 14 July to 18 July 2008(AICTE Sponsored)
- 4 **Attended** a short-term course on Fuzzy logics held at GNDEC Ludhiana from 24 Nov.28 Nov.2008
- 5 **Attended** a short-term course on Non-Conventional Energy Resources-A Gate Way to Future held at GNDEC Ludhiana from 22 Dec.-28 Dec.2008.
- 6 **Attended** a short-term course on Educational Auditing and Feedback system for the excellence in technical Institutions GNDEC Ludhiana from 12th Jan 2009-16 Jan 2009.
- 7 **Attended** a short-term course on Energy conservation and auditing: The need of present energy Scenario held at GNDEC Ludhiana from June08-13th June 09. (AICTE Sponsored)
- 8 **Attended** a seminar on Problems in communication at GNDEC Ludhiana on 20th March 2009.

- 9 Attended** a short-term course on “New Initiatives and directions in entrepreneurship and management “at GNDEC Ludhiana from 18/3/10 to 20/3/10.
- 10 Attended** National workshops on computational Mathematics on 10-11Dec.2010 (UGC Sponsored) at Govt.College for Girls Amritsar.
- 11 Attended** a short-term course sponsored by AICTE of **two** weeks at GNDEC Ludhiana from 2nd Dec. to 15th Dec 2011
- 12 Attended** a short-term training Program cum workshop on computational tools for engineers sponsored by TEQIP-II, at GNDEC Ludhiana from 29 July13-03 August **13**.
- 13 Attended** FDP (**Two** weeks) from 20th-31st Jan.**2014** held at GNDEC Ludhiana
- 14 Attended** one-week TEQIP-II Sponsored FDP on Computational Research Methodologies in Information Securities 6-10 Jan.**2014** at GNDEC Ludhiana
- 15 Attended** **two** weeks TEQIPII Sponsored FDP on Waste Management and optimization techniques 27th Dec.2015 to 5th Jan.**2016** at GNDEC Ludhiana.
- 16 Attended** *a short-term course AICTE sponsored* on Universal Human values Development in students through curriculum Management, **from** 18/4/16 to 20/4/**2016** at GNDEC Ludhiana.
- 17 Attended** a short-term course sponsored by QIP from 12/3/**18** to 16/3/18 at GNDEC Ludhiana
- 18 Participated in the Professional development trg programme organized by IIM Bodhgaya from 10-14 Feb. 2020**
- 19 Attended** a short term course on computer aided design and manufacturing 27/4/20-01/05/20(online) at NITTTR Chandigarh AICTE Approved.
- 20 Attended** a short term course Academic leadership Enhancement in tech. institutions 4/5/20 to8/5/20(online) at NITTTR Chandigarh AICTE approved.
- 21 Attended** a short term course on waste management on 11/5/20 to15/5/20(online) At NITTTR Chandigarh AICTE Approved
- 22 Attended** a short term course on Leadership and Team work for performance excellence 18/5/20 to22/5/20 (online)at NITTTR Chandigarh AICTE approved.
- 23 Attended** a short term course on operational research: an introduction 25/5.20 to 29/5/20 at NITTTR Chandigarh (on line)AICTE approved

PRESENCE AT INTERNATIONAL CONFERENCES:

- 1 As a Presenter at International conference on Modern Trends in Science, Engg, and Technology 25-26 Sept.2013Dubai, (U.A.E) organized by ICMTSET (TEQIPII)**
- 2 As a Presenter at International conference on Mathematical, Computational and Statistical Sciences and Engineering 17-18. Oct2015, Dubai, (U.A. E) organized by WASET. (UGC)Govt.of India**

- 3 As a Presenter at International conference on fundamental and Applied Sciences, 15-17 Aug. 2016, Kuala Lumpur, organized by ESTCON (TEQIPII), Malaysia
- 4 Chaired a session at International conference on fundamental and Applied Sciences, 15-17 Aug. 2016, organized by ESTCON (TEQIPII), Kuala Lumpur, Malaysia
- 5 Keynote speaker and Presenter at International conference ICLISEM-16 (TEQIPII), held in GOA (INDIA) 9th Oct 2016.
- 6 Chaired a session at International conference on Recent Advances in Fundamental and Applied Sciences (RAFS-16), 25-26 Nov 2016 organized by Lovely Professional University, Phagwara
- 7 Chaired poster presentation session in 20th Punjab science congress held at IET Baddal on 9th Feb 2017. (TEQIPII)
- 8 Chaired a session in an Int. Conf. held at SCD Govt. College Ludhiana on 24-25/4/2017.
- 9 Chaired a session in the International conference ICRDESHM 17 at ICSSR Chandigarh on 26/12/2017.
- 10 Chaired a session in the international conference (ICSTTC-2018) at GGNKC Ludhiana, 16-17 April 2018.

RESEARCH GUIDANCE:

1 Arbind Kumar, Rajneesh Kumar (1113003), 02 Aug. 2011 (Awarded) 25/1/19

2 Kulvinder Singh, Rajneesh Kumar (1213011), 06 June 2012 (Awarded) 10/6/19 2019

3 Sunil Sachdev and Praveen Ailawalia (1113024), 05 Aug. 2011 (Awarded) on 22/12/17

4 Kanchan, PK Sharma (1413006), 30 Jan 2014

5 Gaurav Verma (1213017), 02 June 2012 (Awarded) on 26/12/2017

6 Gagandeep Kaur, PK Sharma (1313014), 01 August 2013 (Viva held on 11 June 20)

7 Vandana Bansal PK Sharma (1313013), 01 August 2013 (Awarded) 2019