

Dr. Pankaj Agarwal

Professor

Mechanical Engineering Department
Samrat Ashok Technological Institute
(Engineering College) Vidisha (MP)

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Education:

- **Ph.D.** : Barkatullah University, Bhopal – 2002
- **M.Tech.** : MANIT Bhopal -1995
- **B.E. (Mech.)** : SATI Vidisha- 1990

Experience :

At Samrat Ashok Technological Institute (Engineering) Vidisha:

- **Professor** , Mechanical Engineering, August 2009 **to till date**
- **Reader**, Mechanical Engineering , August 2001 to 2009
- **Sr.Lecturer**, Mechanical Engineering, August 1997 to 2001
- **Lecturer** , Mechanical Engineering , August 1991 to 1997

Administrative Experience:

At Present :

- QIP Coordinator of Institute
- Coordinator AICTE IDEA Lab
- Incharge T&P Section
- Chairman , Institute Innovation Council (IIC)
- Chairperson KAPILA Scheme

In Past :

- **Head Of Department** (Mechanical Engineering) , from August 2016 to July 2022
- **Head Of Department** (Petrochemical Engineering) from July 2018 to June 2022
- Chairman **Board of Studies** Mechanical Engineering
- Chairman **Board of Studies** Petro Chemical Engineering
- Member, **Academic Council** from 2016 to till date
- Worked as **Prof. I/C Establishment** Section of SATI, Vidisha. (from 2013 to 2017)
- Worked as **Hostel Warden** of C V Raman Boys Hostel

- Worked as **Hostel Warden** of J.L.N. Boys Hostel
 - Worked as **Hostel Warden** of R.N.T. Boys Hostel
 - Worked as **Prof. I/C Security**
 - Worked as Astd. **Examination Supttd.**
 - Worked as Astd. **Prof. I/C Academic**
- And many more administrative assignments.....**

Publications:

Published **total 132 papers** (International journals: **68**, National journals: **11**, National Conferences: **30** and International Conferences: **23**). (See Annexure-I)

Patents:

- **Certificate of registration is Granted** from the Indian Patent office for **Title:** Absorber plate for solar collector, Design no : 367141-001 dt: 03/7/2022 .
- **Granted German Patent** “Intelligent System for the automatic classification of medical images”, **Patent no: 202022100604** dated 2nd February 2022 by German patent and trademark office, Fedral Republic of Germany.
- **Granted Australian Patent** “System for secure authentication and inter-communication among networked IOT devices” **patent number : 2021102117** dated 26th May 2021.
- **Published Indian Patent** “System of Computerized articles sorting based on colour shape odour and weight” 10th July, 2019, **Application No 201941027667**.

Award:

Awarded on Independence Day (15th August 2019) by Dr. L.K. Markhedkar sir (hon”ble secretary MJES) for doing appreciable work in the development of Institute with full capacity and honesty.

Doctoral Thesis Supervision

- Prem Narayan Ahirwar-“Design and development of Multi Objective Dynamic Facility Layouts and its applications”-Barkatullaha University, Bhopal-**Awarded in Nov. 2021**
- Hitesh kumar-“Energy Modelling and Optimization using hybrid system of Wind and Biomass”-Barkatullaha University, Bhopal-**Awarded in 2014**

- Shri Krishna Dhakad-“Energy Modelling and Optimization of Molton Carbonate Fuel Cell”-Barkatullaha University, Bhopal-**Awarded in 2014**
- L.P. Dhamande-“Analysis and development of TPM (Total Productive Maintenance) strategy for Indian industries”-Barkatullaha University, Bhopal-**Awarded in 2008**

M.E./M.Tech Dissertations Supervision:

- 2020, Chater Singh Rai, Productivity Enhancement in Bottling Plant using Implementation of 5S Quality Strategy
- 2020, Anas Ahmed Ansari, Investigation of Mechanical Properties of Sisal Fibre and Human Hair Reinforced with Epoxy Resin Hybrid Polymer Composite
- 2020, Shivi Tripathi, Fractured Human Fibula bone of leg, MRI Digital to 3D Printing, Using FDM Process of Additive Manufacturing
- 2020, Vinay Namdeo, Study of Weld Parameters for Electron beam welding process for SCRF Cavity using Simufact Weld Simulation Software
- 2020, Prinyanka Pandey, Modelling of Machining Parameters in Wire EDM of Titanium Alloy Ti6Al4V using Response Surface Methodology
- 2020, Lokesh Bunker, Micro Structure and sliding wear property evaluation of SiCp reinforced Alluminium Alloy composites and gunmetal: Effects of Solid Lubricants.
- 2020, Govind Singh Raghuvanshi, Selection of Vehicle by Using Multi Attribute utility Technique Combined with linear Programming Method
- 2020, Shivi Tripathi, Fractured Human Fibula Bone of Leg, MRI Digital to 3D Printing using FDM Process of Additive Manufacturing
- 2018, Sakshi Chaturvedi Effect of different test fixture Variables on after Treatment system dynamics.
- 2018, Anurag Jain, Crack Growth Analysis of 2-D Element Using ANSYS
- 2018, Vikas Shakya, Minimization of cost in earth moving machine by retrofit simple mechanism
- 2017, Manish Shukla, Modelling and Optimization of EDM Parameters on AL-LM6/SiC/B4C Hybrid Composites using GRA coupled with PCA Algorithm
- 2017, Satya Prakash Gupta, Development & Analysis of carbon composite piston for improving the performance of an IC engine
- 2017, Gourav Sharma, CFD Analysis of circulam fin on four stroke single cylinder internal combustion engine
- 2016, Krishna Mohan Baghel, Analytical Study of Friction Stir Welding and find the Optimal Range of Parameters.
- 2016, Shivendra Raghuvanshi, Enhacement of Micro EDM process and its performances characterstics using AI SI 304 Stainless Steel Tool.
- 2016, Hemant Asati, A Comparative Study of Supplier Selection by using AHP in SCM : A case study
- 2016, Atul Kumar Shukla, Multi Response optimization of process Parameters in end milling of LM24/B4C Metal Matrix Composite using Topsis Algorithm

- 2016, Utkarsh Pandey, Synthesis and Characterization of Nano Titanium carbide Particulate reinforced AA6061 Aluminium Alloy Composite Via Ultrasonic Assisted Stir casting processing
- 2015, Sumit Kr. Singh, Performance Enhancement of Electrochemical micro machining process using Ultrasonic Vibrations techniques
- 2015, Anil Chourasia, Optimization of process parameters for electrochemical micro machining for drilling micro holes
- 2015, Jai Vardhan Shrivastav, Micro machining of shape memory alloy using micro wire EDM
- 2013, Prasansa Saxena, Optimization of Hot Spot area in typical “L” type casting Junction using Surface Methodology.
- 2012, Hemant Jain, Optimization of some micro hole parameters using micro ECM technique
- 2012, Richa Thakur, Optimization of micro holes using micro EDM
- 2012, Rajesh Khatri, Optimization of process parameters in Turning Process by Taguchi Method
- 2012, Jitendra Verma, Optimization of GMAN (MIG) Welding parameters by Taguchi Method
- 2011, Amitesh Dubey, Some post Implementation issues of ERP in an Automobile Industries: A case study of Eicher Volvo Ltd. Dewas
- 2011, Dinesh Kasdekar, Logistic Supply Chain Management Rak in to Rak out cycle time in an enterprise
- 2011, Nazneen Khan, Part Implementation Issues of ERP and case study of Britannia Industries Ltd.
- 2008, Bhupendra Raghuvanshi, Computer Aided reverse Engineering for replacement parts: A case study
- 2005, Rahul Samre, Study of ERP Implementation and its impact on quality of an Automotive industry
- 2005, G. Suresh Babu, Study of Stirling Engine and analysis of its Component using Ansys
- 2005, Ashutosh Goswami, Evaluation of ERP implementation in Indian Industries: A case study

★ **Editor of Journals/ Books/ Proceedings**

- **Book:** Manufacturing and Industrial Engineering (Theoretical and Advanced Technologies) Edited By : **Pankaj Agarwal**, Lokesh Bajpai, Chandra Pal Singh, Kapil Gupta, J. Paulo Davim, Published by: **CRC Press (Taylor & Francis)**, ISBN: 978-0-367-54174-3
- SATI Journal Of Science and Technology
- Editor of Proceedings of TEQIP-III sponsored National Conference on “Modern Tools in Engineering” 5 April 2019, ISBN: 978-93-82346-25-8. Organized By Mechanical Engineering Department, Samrat Ashok Technological Institute (Engineering College) Vidisha.
- Editor of Proceedings of TEQIP-II sponsored National Conference on “Innovative Research in Engineering and science” 16 February 2017, ISBN: 978-93-82346-18-0.

Organized By Mechanical Engineering Department, Samrat Ashok Technological Institute (Engineering College) Vidisha.

- Editor of Proceedings of TEQIP-II sponsored National Conference on “Recent Trends In Mechanical and Production Engineering” December 20-21, 2013, ISBN: 978-93-82346-07-4, Organised By Mechanical Engineering Department, Samrat Ashok Technological Institute (Engineering College) Vidisha.
- Editor of Proceedings of AICTE sponsored National Conference on “Recent Trends in Information Systems and Management” December 16-17 2006.

★ **Book Chapters published:**

- ❖ Mechanical and Corrosion Behaviour of Cu-SiC Composites Fabricated by Stir Casting Method “published in book Titled “Manufacturing and Industrial Engineering (Theoretical and Advanced Technologies)” ISBN: 978-0-367-54174-3, First edition published 2021 by **CRC Press (Taylor & Francis)** 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742.
- ❖ “An overview of human bone, biomaterials, and implant manufacturing” published in book Titled “Manufacturing and Industrial Engineering (Theoretical and Advanced Technologies)” ISBN: 978-0-367-54174-3 , First edition published 2021 by **CRC Press (Taylor & Francis)** 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742.
- ❖ “Design and development of facility planning under manufacturing and material handling system” chapter : 5, page no 31 to 34. Book Titled : Modern Tools in Engineering, ISBN: 978-93-82346-25-8, Balaji Learning Books.
- ❖ “Additive Manufacturing in Dentistry” chapter : 8, page no 48-51. Book Titled : Modern Tools in Engineering, ISBN: 978-93-82346-25-8, Balaji Learning Books.
- ❖ “Additive Manufacturing: Issues in making and Materials” chapter no 12 , page no 68-76, Book Titled : Modern Tools in Engineering, ISBN: 978-93-82346-25-8, Balaji Learning Books.

★ **Article**

- An Article Titled “Just-In-Time” in Technical Times Magazine.

★ **Developed Center of Excellence (Additive Manufacturing Laboratory)**

- ❖ In Contrast to traditional Subtractive Manufacturing, Now a day Additive Manufacturing is popularly known as 3-D Printing Technology. This Centre of Excellence (CoE) is developed in Mechanical Engineering Department. This Centre consists of two FDM Machines, One 3-D Scanner, and Four Systems with necessary softwares. Two PG students of the department are pursuing their M.Tech. Dissertation work on related topic using this facility. Many students have also done their major projects using this Centre of Excellence.

★ **National / International symposium / STTP / Workshop / Conferences/Seminar / Webinars Organized**

- **Organized** virtually TEQIP-III sponsored **International Conference** on “Advances in Mechanical Engineering” dt. 9-10 July 2020.
- **Organized** TEQIP-III sponsored one day **Seminar** on “Advanced Manufacturing Process” on 24 February 2020 at SATI Vidisha (M.P.)
- **Organized** TEQIP-III sponsored one week **STTP** on “Introduction to Numerical Simulation” from 10-14 February 2020 at SATI Vidisha (M.P.)
- **Organized** TEQIP –III sponsored One week **STTP** on “Chemical Simulator ASPEN / HYSYS” from 23-27 Sep 2019 as a convenor.
- **Organized** TEQIP-III sponsored one week **STTP** on “Finite Element Methods & its Application” from 19-23 September 2019 at SATI Vidisha (M.P.)
- **Organized** TEQIP-III sponsored one day **FDP** on “Modelling Simulations Mechatronics, Industrial Engineering & Fluid Powers” on 16 September 2019 at SATI Vidisha (M.P.)
- **Organized** TEQIP-III sponsored One day **workshop** on “Hands-on-Practice on 3D Printing Technology” on 22 August 2019 at SATI Vidisha (M.P.)
- **Organized** TEQIP – III sponsored **National Conference** on “Modern Tools in Engineering” 5th April 2019 at SATI Vidisha (MP).
- **Organized** TEQIP – III sponsored one day **seminar** on “Hyperworks and its Capabilities” 2nd March 2019 at SATI Vidisha (MP).
- **Organized** TEQIP – III sponsored one week **workshop** on “Diffraction and Microscopy” in collaboration with our institute in VNIT Nagpur, 25-29 August 2018 **at VNIT Nagpur.**
- **Organized** TEQIP-II sponsored **National Conference** on “Innovative Research in Engineering and science” 16 February 2017 at SATI Vidisha (M.P.).
- **Organized** TEQIP-II sponsored **National Conference** on “Recent Trends in Mechanical and Production Engineering” on 21-22 December 2013 at SATI Vidisha (M.P.).
- **Organized** TEQIP-II sponsored One day **workshop** on “Sustainable Energy Potential and Opportunities” from 7 October-2016 at SATI Vidisha (M.P.)
- **Organized** AICTE New Delhi sponsored **National Conference** on “Recent Trends in Manufacturing and Information Systems” from 26-27 April 2013 at SATI vidisha (M.P.).
- **Organized** AICTE New Delhi sponsored two week staff development programme on “Manufacturing Automation and Mechatronics” from 6-18 July 2009 at SATI Vidisha (M.P.)
- **Organized** AICTE New Delhi sponsored **National Conference** on “Recent Trends in Information Systems And Management” from 16-17 December 2006 at SATI Vidisha (M.P.)

Expert Lectures / Webinars

- **Delivered** Webinar on “Industry 4.0: An Introduction” for B.Tech and M.tech students on 20th August 2020 at TIT, Bhopal (MP)
- **Delivered** Webinar on “Additive Manufacturing and its Application” for B.Tech and M.tech students on 08th August, 2020 at JUET, Guna (MP)
- **Delivered** Webinar on “How to write a Research Paper” for M.tech students on 20th July, 2020 at SATI Vidisha (MP)
- **Delivered** Webinar on “Industry 4.0: Its Characteristics and Applications” for B.Tech, M.Tech and Ph.D. students on 22nd June, 2020 at VNIT, Nagpur
- **Delivered** Webinar on “Additive Manufacturing and its Application” for B.Tech, M.Tech and Ph.D. students on 20th June, 2020 at VNIT, Nagpur
- **Delivered** Webinar on “IOT in Manufacturing” for B.Tech and M.tech Students on 06th June, 2020 at SATI, Vidisha (MP)
- **Delivered** Webinar on “Smart Manufacturing” for B.Tech and M.Tech students on 20th May, 2020 at SATI, Vidisha
- **Delivered** Webinar on “Industry 4.0” for B.Tech and M.Tech students on 30th April, 2020 at SATI, Vidisha
- **Delivered** Webinar on “Applications of Additive Manufacturing” for B.Tech and M.Tech students on 25th April, 2020 at SATI, Vidisha
- Delivered Webinar on “**Additive Manufacturing: An Introduction**” for B.Tech and M.Tech students on 24th April, 2020 at SATI, Vidisha
- Delivered Expert Lecture on “**Additive Manufacturing**” on 25/02/2020 at Bundelkhand University, Jhanshi (UP).
- Delivered Expert Lecture on “**Flexible Manufacturing System**” at Madhav Institute Of Technology and Science (MITS) Gwalior.
- Delivered Expert Lecture on “**Enterprise Resource Planning**” at Truba Institute of Engineering & Information Technology Bhopal on 20 August 2009
- Delivered Expert Lecture on “**Computer Integrated Manufacturing**” at Truba Institute of Engineering & Information Technology Bhopal on 29 March 2009.
- Delivered Expert Lecture on “**Flexible Manufacturing System**” at AICTE sponsored staff development programme on “Manufacturing Automation and Mechatronics” on 9-July 2009
- Delivered Expert Lecture on “**Enterprise Resource Planning**” at AICTE sponsored staff development programme on “Manufacturing Automation and Mechatronics” on 7-July 2009
- Delivered Expert Lecture on “**Flexible Manufacturing System**” at Lakshminarayan College of Technology Bhopal on 20 Sep. 2009.

- Delivered Expert Lecture on “**ERP:an introduction and applications**” at Technocrats Institute of Technology Bhopal on 11-April 2009
- Delivered Expert Lecture on “**ERP**” at Lakshminarayan College of Technology Bhopal on 28 Nov. 2009.
- Delivered Expert Lecture on “**Computer Integrated Manufacturing**” at Technocrats Institute of Technology Bhopal on 10-january 2009
- Delivered Expert Lecture on “**Enterprise Resource Planning**” at Maulana Azad National Institute Bhopal on 9-July 2008.

Membership of Professional Bodies

- Life Member : The Indian Society for Technical Education (LM 17735)
- IET Faculty Membership

Reviewer of Doctoral Thesis

- “Formulation of Experimental data based model for human energized flywheel motor for stirrup making” Thesis submitted for doctor of philosophy to Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur(M.S.)

Professional / Other Activities:

- ❖ Member of selection committee for the post of assistant professor on contract basis in the department of Mechanical and Automobile Engineering of UIT RGPV (University Of Technology) Bhopal (MP) on July 2016.
- ❖ Member of selection committee as subject Expert (Mechanical Engineering) for the recruitment of faculty at MITS Gwalior 27th November 2012.
- ❖ Member of selection committee for the post of assistant professor on contract basis in the department of Mechanical Engineering of Ojaswini Women Management & Engineering College, Sagar on 29th May 2008.
- ❖ External Examiner for the conduct of Viva/Voce Exam in M.Tech (Production Engineering) at MITS Gwalior October 2014.
- ❖ Coordinator of ME/M.Tech Programme of Mechanical Engineering Department SATI on 10/6/2013 by Office Order No. Estt./PF/2013 843.

- ❖ Member of selection committee for the recruitment of Astd. Professor (contract Basis) in the Mechanical Engineering Department SATI, 03/01/2016.
- ❖ **Chair a Session** in AICTE New Delhi sponsored National Conference on “Recent Trends in Information Systems And Management” on 17-december 2006 at S.A.T.I. vidisha.(M.P.)
- ❖ **Chair a Session** in TEQIP –II sponsored National Conference on “Recent Trends in Mechanical & Production Engineering” on 21-22 december 2013 at S.A.T.I. vidisha.(M.P.)
- ❖ Member, Academic Council for the Session 2016-17.
- ❖ Member, Select QIP-Ph.D. Scholars Committee Session-2016.
- ❖ **Master Trainer** Census 2010.
- ❖ **Master Trainer** Panchayat Election 2010.
- ❖ **Co-Coordinator**, AICTE-INDEST Consortium, SATI., Vidisha (M.P.)
- ❖ **OBSERVER** for PET /PAT-2000 Exam organized by M.P. Professional Examination Board Bhopal (MP)

Personal Details

- Date of Birth: **28/8/1967**
- Nationality: **Indian**
- Marital Status: **Married, blessed with one daughter and one son.**
- Wife: **Smt. Sandhya Agarwal**
- Father: **Shri P.N.Agarwal**

(Dr. Pankaj Agarwal)

Publication Details

❖ Year – 2021

- P. Agarwal, et.al,” Microstructural evolution, compressive deformation and Corrosion behaviour of thermally oxidized porous Ti4Al4Co alloy made of Mechanically alloyed powder” published in Materials chemistry and Physics Journals 261 (2021)124191, www.elsevier.com/locate/matchemphys, SCI Indexed publication.
- Pankaj Agarwal, et.al,“Microstructure and high temperature compressive deformation in lightweight open cell titanium foam” published in Manufacturing Letters 27 (2021) 67-71, www.elsevier.com/locate/mfglet, SCOPUS Indexed publication.
- P. Agarwal, et.al “Effect of ball powder ratio on microstructure and compressive behavior of porous Ti-4wt %Al alloy” IOP Conf. Series: Materials Science and Engineering 1136 (2021) 012065 IOP Publishing , doi:10.1088/1757-899X/1136/1/012065, SCOPUS Indexed publication.
- Pankaj Agarwal, et.al, Analysis and prioritization of Lean Manufacturing framework with multi-criteria decision–making approach, published in Journal Of Huazhong University of Science and Technology (ISSN-1671-4512), Vol 50, issue: 7, pp 1-10, SCOPUS Indexed publication.

❖ Year – 2020

- ShiviTripathi , Dr. Ashish Manoria, **Dr. Pankaj Agarwal**, “ A Review on : 3D Printing in spine surgery” Published by Journal of Emerging Technologies and innovative research (JETIR) www.jetir.org , Vol. 7 issue : 6, pp 546-551 , ISSN : 2349-5162 , UGC approved (Journal No. 63975) 5.87 Impact Factor, June 2020
- *Anas Ahmed Ansari, S K Dhakad, Pankaj Agarwal*, “Investigation of mechanical properties of sisal fibre and human hair reinforced with epoxy resin hybrid polymer composite””Volume 26, Part 2, 2020, Pages 2400-2404 Material Todays Proceedings [https:// doi.org/ 10.1016/j.matpr .2020.02.513](https://doi.org/10.1016/j.matpr.2020.02.513) Elsevier Publications. **Feb-2020.**
- *Prem Narayan Ahirwar, Dr. Pankaj Agarwal* “layout Analysis of Dynamic Facility by different Technique” Published by International Journal of Advanced Engineering and Technology, Volume-4, issue-1, ISSN No.-2456-7655; Impact factor-RJIF 5.54, page no. 01-03, January 2020.
- *Prem Narayan Ahirwar, Dr. Pankaj Agarwal* “Design of Dynamic facility Layout Problem and Solution” Published by International Journal of Advanced Engineering and Technology, Volume-4, issue-1, ISSN No.-2456-7655; Impact factor-RJIF 5.54, page no. 10-14, **January 2020.**

❖ Year – 2019

- *ShiviTripathi , Dr. Ashish Manoria, Dr. Pankaj Agarwal*, “3D Printing of Fractured Fibula Bone of Human Leg” Published by International Journal of Engineering Research & Technology (IJERT) www.ijert.org ISSN: 2278-0181 ,Vol. 8 Issue 12, pp 444-446 **December-2019 .**

- *Prem Narayan Ahirwar, Dr. Pankaj Agarwal* “Layout of multi objective Dynamic facility Design and its use” Published by Journal of the Gujarat Research Society, Vol-21, Issue-16 ISSN No-0374-8588, 16 **December-2019**.
- *Govind Singh Raghuwanshi, Dr. Pankaj Agarwal, Dr.P.L.Verma*, “Selection of Vehicle by using Multi attribute Utility Technique Combined with Linear Programming Method“ Published by International Journal of Advances in Production and Mechanical Engineering, www.troindia.in/journal/ijapme/, ISSN (online): 2394-6210, Vol. -5 , Issue -5 , **October 2019**.
- *Govind Singh Raghuwanshi, Dr. Pankaj Agarwal, Dr.P.L.Verma*, “ A review of Multi Attribute Utility Technique combine with Linear Programming Method” Published by International Journal of Current Engineering and Scientific Research (IJCESR), www.troindia.in/journal/ijcesr/, ISSN (online): 2394-0697, Vol. -6 , Issue -9 , **November 2019**.
- Prem Narayan Ahirwar, **Dr. Pankaj Agarwal** “ Design & Development of facility Planning under Manufacturing and Material Handling System” published in National conference on Modern Tools in Engineering (MTE-2019), ISBN NO.:978-93-82346-25-8, **05 April-2019**, at Samrat Ashok Technological Institute Vidisha M.P.p.p.31-34.
- ShiviTripathi, Dr. Ashish Manoria, **Dr. Pankaj Agarwal** “Additive Manufacturing in Dentistry” published in National conference on Modern Tools in Engineering (MTE-2019), ISBN NO.:978-93-82346-25-8, **05 April-2019**, at Samrat Ashok Technological Institute Vidisha M.P.p.p.48-51.
- Vinay Namdev, **Dr. Pankaj Agarwal**, Dr. Ashish Manoria “Additive Manufacturing: Issues in Making and Materials” published in National conference on Modern Tools in Engineering (MTE-2019), ISBN NO.:978-93-82346-25-8, **05 April-2019**, at Samrat Ashok Technological Institute Vidisha M.P.p.p.68-76.

❖ **Year – 2018**

- VandanaPurohit, A. Manoria, Pankaj Agarwal, Sanjay Jain “Vibration Frequency Optimization of Automobile Leaf Spring Using Different Angles of Orientation of Glass Fiber” Published by Annual Technical Volume of Mechanical Engineering Division, IEI, Dec-2018
- *SakshiChaturvedi, Pankaj Agarwal, Ashish Manoria*, “Effect of different test fixture Variables on the after treatment system dynamics” International Journal of Advance Engineering and Research Development (IJAERD) ISSN: 2348-4470, DOI: 10.21090/IJAERD, Impact factor: 5.71 (SJIF-2017) www.ijaerd.com, Vol 5, issue 9, **September 2018**.
- *SakshiChaturvedi, Pankaj Agarwal, Ashish Manoria*, “ Effect of different test fixture Variables on the after treatment system dynamics”: A Review” Published by International Journal for Science and advance Research in Technology” www.ijrsart.com, vol. 4, issue: 8 , **August 2018**, ISSN : 2395-1052

- *VandanaPurohit, A. Manoria, Pankaj Agarwal, Sanjay Jain* “ Vibration Frequency Optimization of Automobile Leaf Spring Using 0-90 Lay-Up GFRP Leaf Spring” Published by International Journal of technical research and science (www.ijtrs.com) vol 3 issue 7, **August 2018**, issn no : 2454-2024.
- *Prem Narayan Ahirwar, Dr. Pankaj Agarwal, Dr. V.K. khare* “A study of Efficiency and Improvement of a Plant Location and Layout Planning using Algorithm” Published by International Journal of Creative Research Thoughts (IJCRT), Vol-6, issue-2, ISSN No. 2320-2882, **April-2018**
- *VikasShakya, P L Verma, Pankaj Agarwal , Anil Chourasia*, “Static & Dynamic Analysis of Open Coil Helical Spring used in Two Wheeler Application” Published by Innovative Thoughts International Research Journal(ITIRJ)(refereed)(peer reviewed), ISSN 2254 -308X, Vol. 04, Issue 03 ,January – **March 2018**.
- *Prem Narayan Ahirwar, Dr. Pankaj Agarwal* , “Solution to Dynamic facility Layout Problems and its Applications” Published by 2nd International Conference on Emerging Trends in Mechanical Engineering, TIT (Excellence) Bhopal march 27-28, 2018 ‘Journal of Engineering & Technology, Special issue ICETME-2018, ISSN No. 2393-9400, Vol-05, **March -2018**
- *VikasShakya, Dr. P.L. Verma, Dr. Pankaj Agarwal, Dr.LokeshBajpai*, “Experimental Approach on Minimization of capital cost and Operating cost in Earth Moving machine by Retrofit Simple Mechanism” Published by International Journal for Research in Applied Science and Engineering Technology (IJRASET) Vol. 6, Issue 2 ,**February 2018**, Impact Factor : 6.7 , ISSN:2321-9653.
- *VikasShakya, Dr. P.L. Verma, Dr. Pankaj Agarwal, Anil Chourasia*, “Static & Dynamic Analysis of open Coil Helical Spring used in Two Wheeler Application” Published by Innovative Thought International Research Journal (ITIRJ) Vol. 4, Issue 3 ,**Jan-March 2018**, pISSN 2321-5453
- *Manish Shukla, Pankaj Agarwal, M.K. Pradhan, S.K. Dhakad* “Experimental Investigation of EDM Parameters on Al-LM6/Sic/B4C Hybrid Composites “ applied mechanics and materials, ISSN:1662-7482, Vol.877, pp149-156, doi: 10.4028/www.scientific.net/AMM.877.149, Trans Tech Publication **Switzerland.2018**
- *Manish Shukla, S.K. Dhakad, Pankaj Agarwal, M.K. Pradhan* “Characteristic behavior of Aluminium metal Matrix Composites: A review” (ICMPC-2017), volume-5, issue-2, part-1, 2018,pp-5830-5836, Materials Today proceedings, (**2018**),(Elsevier)
- *Utkarsh Pandey, RajshPurohit, Pankaj Agarwal, Swadesh K Singh* “ Study of Fabrication, Testing and characterization of Al/TiC Metal Matrix Composite through

different Processing Techniques, volume – 5 issue-2, part-1, **2018** pp-4106-4117, (Elsevier)

❖ **Year – 2017**

- Prem Narayan Ahirwar, Dr. Pankaj Agarwal, “Planning Optimizing the Traveling Time (Distance) in Manufacturing Industry with the help of Single Facility Location Planning” Published by International Journal of Recent Engineering Research and Development (IJRERD) ISSN: 2455-8761 www.ijrerd.com || Volume 02 – Issue 08 || August 2017 || PP. 67-72.
- *Sajal Bansal , Pankaj Agarwal*, “ Incremental Sheet Forming with Flexible Hydraulic Supports” Published by International Journal for scientific Research & Development , ISSN(Online): 2321 0613 , www.ijrerd.com, Vol 5 issue 5 , **July 2017**.
- *Sajal Bansal, Dr. Pankaj Agarwal* “Comparative Study of Single Point Incremental Sheet Forming on Conventional Setup and Flexible Hydraulic Support Setup” Published by International Journal for Research & development in technology, ISSN(O) :-2349-3585, Vol.-8, Issue-1(**July-2017**)
- *PremNarayanAhirwar, Dr.V.K.Khare, Pankaj Agarwal*, “A Review : Sustainable Development of Manufacturing Unit through Facility Location Planning in Plant Layout” Published by International Journal of Research Science and Management” ISSN : 2349-5197, Impact Factor : 2.715, www.ijrsm.com, DOI : 10.5281/zenodo.574443, **May 2017**, Thomson Reuters.
- *Manish Shukla, Pankaj Agarwal, M.K. Pradhan, S.K. Dhakad*“ Optimization of Electrical Discharge machining of AILM-6/SiC/B4C Composite: A Grey Relational Approach” Published by (IConAMMA-2017) , Materials Today proceedings-00 (**2017**),(Elsevier)
- *Atul Shukla, Pankaj Agarwal, R.S.Rana, Rajesh Purohit*“ Applications of TOPSIS Algorithm on various Manufacturing Processes: A review” Published by (ICMPC-2017), volume-4, issue-4, part-D, 2017, pp-5320-5329, Materials Today proceedings-XX (**2017**),(Elsevier)
- *Atul Shukla, Pankaj Agarwal, R.S. Rana, S.K. Dhakad*“End Milling of Alloys and metal Matrix Composites: A review” (ICMPC-2017), Published by Materials Today proceedings-XX (**2017**), (Elsevier)
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