

Executive Summary of Curriculum Vitae



Dr. S.K. Dhakad, Professor & Head

Department of Mechanical Engineering & Dean
Academic

University Institute of Technology (UIT-RGPV-
Shivpuri) Satanwada Shivpuri (M.P.)

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Name : **Dr. Shrikrishna Dhakad**

Details of Educational Qualifications: B.E, M.Tech . Ph.D

Fields of Specialization: Thermal, Design, Energy, Fatigue & Fracture, Gasification

Details of Experience: 18 years Teaching & Research

Awarded:

- Best Teacher Award, SATI, Vidisha in the year 2018
- Awarded as faculty Advisor of Best ISTE chapter in the MP section year -2018

Business Consultant:

- Trivima Solution Pvt.Ltd. Indore , India
- Shakti Steller Energy Solution Pvt.Ltd., Bhopal India

Patent Details:

S.No	Patent Title	Name of Applicant(s)	Patent No. (Filed)	Filed Date	Patent Office	Status
1.	System of power management with maximum power point tracking (MPPT) control of large-scale grid connected inverter for photovoltaic applications	S.K. Dhakad & Team	201911017877	04/05/2019	India	Filed& Published
2.	Fuzzy Neural Network based PID Control System and Method Thereof For Industrial Process	S.K. Dhakad & Team	20194102447	20/06/2019 28/06/2019	India	Filed& Published
3.	Intelligent System for Optimization the output of Solar Panels Working Indian System	S.K. Dhakad With Shakti Staller Energy Solution Pvt.Ltd. Bhopal	201921024891	12-06-2019 19/07/2019	India	Filed& Published
4.	<i>Method of Statistical data Based Smart Reservation & Charging of Parking</i>	S.K. Dhakad & Team	201921026715	03-07-2019 16/06/2019	India	Filed& Published

05	System of Computerized Articles-Storing Based on Color ,Shape, Odor, and Weight	S.K. Dhakad & Team	201941027667	10/07/2019 12/07/2019	India	Filed& Published
06	System for heat Sink Motor Control for Consumer Electronic Device	S.K. Dhakad & Team	201941029525	22/07/2019 19/08/2019	India	Filed& Published
07	Low cost waste paper Material pulping Machine for recycling	S.K. Dhakad & Team	201921029356	22/07/2019 30/08/2019	India	Filed& Published
08	Machine Learning Based Method for optimization of power management in Renewable and Non Renewable Energy Recourses	S.K. Dhakad & Team	201921031179	01/08/ 2019 30/08/2019	India	Filed& Published
09	Biometric Authentication based computer implemented method for secure and easy Automatic generating Demand draft/ Pay order	S.K. Dhakad & Team	201941036392	10/09/2019	India	Filed& Published

S.No	Patent Title	Name of Applicant(s)	PatentNo. (Filed)	Filed Date	Patent Office	Status
10	IOT Sensors based multifunction and intelligent walk guided stick for visual disabled person	Dr. S.K. Dhakad & Team	201941051603	12/12/2019	India	Filed& Published
11	Real Time monitoring system for Compress gas artificial lift method thereof	Dr. S.K. Dhakad & Team	202041005255	06/02/2020 14/02/2020	India	Filed& Published
12	Method of user health assessment using heat dissipation effect of consumer electronic devices	Dr. S.K. Dhakad & Team	202041012316	21/03/2020 08/05/2020	India	Filed& Published
13	Method for providing internet user classification & recommendation bases on the internet activities using neural-network	Dr. S.K. Dhakad & Team	202031015951	13/04/2020 15/05/2020	India	Filed& Published
14	Sanitising Energy Gate	Dr. S.K. Dhakad & Team	202011031403A	22/07/2020 28/08/2020 28/02/2022	India Patent No. 390591	Granted
15	Computer - implemented method for encryption over a blockchain data sharing in secure network	Dr. S.K. Dhakad & Team	Patent number: 2021100143	31march 2021	Australian	Granted

16	System for secure authentication and inter-communication among networked iot devices	Dr. S.K. Dhakad & Team	Patent No. 2021102117	21th Day of April 2021	Australian	Granted
17	Decision support system based on machine learning and deep learning for secure data management	Dr. S.K. Dhakad & Team	Patent No 2021102301	30 th Day of April 2021	Australian	Granted
18	Intelligent system for automated classification of medical images using image processing and artificial intelligence	Dr. S.K. Dhakad & Team	Patent No 20 2022 100 604.0	2nd Day of Feb. 2022 Published 16 feb 2022 04 april 2022	Germany	Granted
19	Jute Fiber mat reinforced epoxy based polymer composites and Nano Composite	1.Arun Kumar Sharma 2.Rakesh Bhandari 3.Shri Krishna Dhakad 4.Sarika Sharma 5.Camelia Pinca Bretotean	Application No 202221044723	Filing date 5 th August 2022	Indian	Filed& Published
20	Polymer Composites Multiwall Carbon Nano tube/ Graphene Nano Composites Consisting of Polymer	1.Arun Kumar Sharma 2.Rakesh Bhandari 3.Shri Krishna Dhakad 4.Sarika Sharma 5.Camelia Pinca Bretotean	Application No 202221044726	Filing date 5 th August 2022	Indian	Filed& Published
21	Multiwall Carben Nanotube, Graphene and Jute mat fiber reinforced epoxy Nano Composites	1.Arun Kumar Sharma 2.Rakesh Bhandari 3.Shri Krishna Dhakad 4.Sarika Sharma 5.Camelia Pinca Bretotean	Application No 202221044728	Filing date 5 th August 2022	Indian	Filed& Published
22	Hybrid nano composites Polymer Composites comprising the same and fabrication techniques thereof	1.Arun Kumar Sharma 2.Rakesh Bhandari 3.Shri Krishna Dhakad 4.Sarika Sharma 5.Camelia Pinca Bretotean	Application No 202221044770	Filing date 5 th August 2022	Indian	Filed& Published
23	Smart Intelligent wheel chair for assisting disabled Athletes using Compensation Algorithm	Dr. S.K. Dhakad & Team	Application No 2022 41073886A	Filing date 20 th Dec. 2022 Date of published 13 th Jan -2023	Indian	Filed& Published

24	Machine Learning Based Emotion Recognition and Recommendation System by Analysing ECG Signals	Dr. S.K. Dhakad & Team	Application No 2023 41005843A	Filing date 30/01/2023 Date of published 17 th Feb-2023	Indian	Filed& Published
25	Artificial Intelligence Based Smart Watch to Diagnose Parkinson's Disease using efficient Gait Analysis Journal Number: 01/2023 Date: 06/01/2023 pp.772	Dr. S.K. Dhakad & Team	Application No 2023 41000248 A	Filing date 03/01/2023 Date of published 06 th Jan-2023	Indian	Filed& Published
26	AI based weather monitoring devices for weather prediction	Dr. S.K. Dhakad & Team	Application No 383775001	Filing date 12/04/2023 Date of published	Indian	Filed

Subjects Taught / Teaching:

UG Courses: Heat & Mass Transfer, , Steam Generator, IC Engine and Hydraulic Turbine, Steam Turbine , Engineering Thermodynamics, Thermal Engineering & Gas Dynamic,
PG Course: Advance Heat &Mass Transfer, Thermal Equipment Design

Membership of Professional Bodies:

- Life Time Member , ISTE, New Delhi LM 73731
- Life Time Member SESI Delhi , India , LM/2356/2019

Conference/Seminar/Workshop/FDP/STTP Course Organized:

1. National Conference on “Recent Trends in Mechanical and Production Engineering , (RTMPE -2013) ” as Co-Coordinator from 20-21 December 2013 in Mechanical Engineering Department S.A.T.I. Engineering College , Vidisha (M.P.)
2. Organized one week STTP on “**Recent Trends and Challenges in Thermal Engineering**”(RTCTE)during **1st – 5th April , 2015**. As **Course Coordinator**, Sponsored by **TEQIP-II**.
3. Organized one week STTP on “**Research Methodology**” during **21st– 25th, August, 2015**. As **Course Coordinator**, Sponsored by Directorate of Technical Education Bhopal, Madhya Pradesh.
4. Organized one day workshop on “**SUSTAINABLE ENERGY POTENTIAL AND OPPORTUNITIES**” **TEQIP-II**” **Date 7/10 /2016**. As **Co-Coordinator**, Sponsored by **TEQIP-II**.
5. Organized one day National Conference on “**Innovative Research in Engineering and Science**” **Sponsored by TEQIP-II,16th -Feb 2017 as Conference Coordinator**.
6. Organized **Technovision / Satyarth-I24-26**, March 2017 as Dy. Secretary at SATI Engineering College Vidisha

7. Organize one day workshop on “**Idea Generation** ” under startup cell sponsored by TEQIP-III, dated 28, Feb-2018
8. Organized **TECHFEST-2018** 20-21, March 2018 as Dy. Secretary at SATI Engineering College Vidisha
9. Organized **Samrat Uttasav-2018** 22-24, March 2018 as Dy. Secretary at SATI Engineering College Vidisha
10. Organized two days workshop on “**Design and innovation** ” under startup cell sponsored by TEQIP-III, dated 12-13, April-2018, as work shop Convener.
11. Organized one day seminar on “**Art of Entrepreneurship** ” under startup cell sponsored by TEQIP-III, dated 19th April-2018, as seminar convener
12. Organize one week Short Term Training Program (STTP) on **Recent Trends and Challenges in Bio-Fuel Technology & Combustion 11th-15th May -2018, sponsored by TEQIP –III**, as course Coordinator
13. Organize one week induction Program on “Research Methodology in Engineering & Applied Science from 25th -30th July 2018 sponsored by AICTE-ISTE, New Delhi, as course Coordinator
14. Organized 03 days Smart MP Hackthone from 8-10, March 2019, SATI campus under TEQIP-III
15. Organized one week startup Conclave -2k19, from 8-12, April 2019 SATI campus under TEQIP-III, as Convener of events.
16. Organized one day FDP on “Application of simulation and modeling in Mechatronics, Industrial Engineering and thermodynamics 16 September 2019 associated with India Soft Technological Pvt. Ltd. Pune India.
17. Organized two days Industrial Motivational Campaign (Youth) from 27-28, September 2019 associated with MSME-DI, Indore
18. Joint secretary of 10th International Conference ICMPC-2020 organized by GLA university Mathura India 21-23 Feb 2020
19. Organize internal hackathone from 15th -19th Jan 2020, at SATI Vidisha as convener of event
20. Technical committee advisor of one week AICTE-RGPV joint Teachers Training Program (TTP) on “**Advance in Automobile Engineering**” from 11th -15th Feb-2020, organized by RJIT BSF Academic Tekanpur Gwalior (M.P.)
21. Co- Convener, International Conference on “Advance in Mechanical Engineering ICAME-2020”, Virtual conducted from 9-10, July 2020 (virtual), organized by Mechanical Engineering Department, SATI, Vidisha (M.P.)
22. Coordinator webinar on “Ethical Leadership” on 8 September 2020, talk delivered by Prof Himanshu Rai, director IIM, Indore
23. Convener of one day webinar on implementation of National education policy (NEP-2020) on 7th march -2020 at UIT-RGPV, shivpuri (M.P.)

Editor of books / Conference Proceeding / Review the book chapters / Book Chapters Published

1. Reviews three chapters of tax book titled Heat and Mass Transfer (HMT), McGraw Hill Education Higher Education Publication 2014.
2. **Conference Proceeding: Co- Editor** National Conference on “Recent Trends in Mechanical and Production Engineering “(RTMPE -2013) ISBN No. 978-93-82346-07-4. published by Balaji Learning Books, Bhopal, Conference Co-Coordinator from 20-21 December 2013 in Mechanical Engineering Department SATI, Engineering College Vidisha M.P. Sponsored by TEQIP-II
3. **Conference Proceeding: Editor:** National Conference on “Innovative Research in Engineering & Science (IRES -2017)” ISBN No. 978-93-82346-18-0, published by Balaji Learning Books, Bhopal

Conference Coordinator from 16th Feb. 2017 in Mechanical Engineering Department SATI, Engineering College Vidisha M.P. Sponsored by TEQIP-II

- 4 **Editor in Chief book Titled** "Current Research in Engineering & Technology: A Compilation of Studies" Published by Publisher of International Scholarly Journals & Academic Books, NewDelhi India, Book Proposal No.: 1804 ISBN: 978-81-935729-9-3 Year 2018.

Book Chapters Published:

1. S.K. Dhakad, Book Chapter titled : **Fatigue Life Estimation in Straight Pipe Component**, published in book titled "**Engineering & Technology Latest Progress**" Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** (International Editions) ISBN NO 978-81-932850-2-2 ,July-2017p.p. 01-20
2. P Semil and S.K. Dhakad,Book Chapter titled: **An Over view of Gasification Technology** published in book titled "**Engineering & Technology Latest Progress**" Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** (International Editions) ISBN NO 978-81-932850-2-2 July-2017p.p.21-40
3. S.K. Dhakad, Book Chapter titled: **Unconventional Manufacturing Processes** published in book titled "**Engineering & Technology Latest Progress**" Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** (International Editions) ISBN NO 978-81-932850-2-2 ,July-2017 p.p.389-413
4. S.K. Dhakad, Book Chapter titled: "**Fuel Cells are sources of clean power generation**" published in book titled "**Current Research in Engineering and Technology a complete study**" in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books**ISBN: 978-81-935729-9-3, Feb,2018, p.p.1-19
5. S.K. Dhakad, Book Chapter titled: "**Molten Carbonate Fuel Cell (MCFC) as source of power a Review**" published in book titled "**Current Research in Engineering and Technology a complete study**" in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books**ISBN: 978-81-935729-9-3, Feb,2018, p.p.21-47
6. S.K. Dhakad, Book Chapter titled: "**Mathematical Modeling of High Temperature Fuel Cell Molten Carbonate Fuel Cell (MCFC)**" published in book titled "**Current Research in Engineering and Technology a complete study**" in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books**ISBN: 978-81-935729-9-3, Feb,2018, p.p.49-68
7. S.K. Dhakad, Book Chapter titled: "**Life Estimation of Nuclear power plants an over view**" published in book titled "**Current Research in Engineering and Technology a complete study**" in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books**ISBN: 978-81-935729-9-3, Feb,2018, p.p.69-83
8. Sandeep Mishra and S.K. Dhakad Book Chapter titled: "**Formulation of the Problem and Optimization of Assembly Line Balancing (ALB) in Automated Manufacturing System**" published in book titled "**Current Research in Engineering and Technology a complete study**" in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books**ISBN: 978-81-935729-9-3, Feb,2018, p.p.85-94

9. S.K. Dhakad and P. Kushwaha Book Chapter titled: **“Tannery Wastewater Treatment”** published in book titled **“ Current Research in Engineering and Technology a complete study”** in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** ISBN: 978-81-935729-9-3, Feb,2018, p.p.95-113
10. S.K. Dhakad and P. Agarwal Book Chapter titled: **“Fracture Failure ”** published in book titled **“ Current Research in Engineering and Technology a complete study”** in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** ISBN: 978-81-935729-9-3, Feb,2018, p.p.115-138
11. K.Tiwari and S.K. Dhakad and P. Agarwal Book Chapter titled: **“Experiment and Optimization of Machining Process Parameters in Wire Cut EDM Attachment on EN-36B Series Steel ”** published in book titled **“ Current Research in Engineering and Technology a complete study”** in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** ISBN: 978-81-935729-9-3, Feb,2018, p.p.139-148
12. Pankag Agarwal and S.K. Dhakad and Book Chapter titled: **“Some issues of Micro-Forming in Micro-Manufacturing: A Review ”** published in book titled **“ Current Research in Engineering and Technology a complete study”** in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** ISBN: 978-81-935729-9-3, Feb,2018, p.p.149-160
13. S.K. Dhakad Book Chapter titled: **“An overview Metal Matrix and Nano Composites ”** published in book titled **“ Current Research in Engineering and Technology a complete study”** in Meta Research Press (MRP) **Publisher of International Scholarly Journals & Academic Books** ISBN: 978-81-935729-9-3, Feb,2018, p.p.189-214

Technical Session Chair in International Conferences:

1. **Session Chair: Technical Session P1 - Production & Industrial Engineering Session Co-Chairing International Conference on “ Recent Advance in Mechanical Engineering (RAME-2016)”** organized by Departments of Mechanical, Automobile and Production & Industrial Engineering at **Delhi Technological University** (Formerly Delhi College of Engineering) dated 14 October 2016.
2. **Session Chair: Technical Session-I** in International Conference on “Innovative Research in Mechanical Material, Industrial , Automotive , Aeronautical, Nano Technology Engineering (MIANT-2016) organized by Krishi Sanskriti at **JNU New Delhi** India on 18 December 2016
3. **Session Chair: Technical Session-II** in International Conference on “Innovative Research in Mechanical Material, Industrial , Automotive , Aeronautical, Nano Technology Engineering (MIANT-2016) organized by Krishi Sanskriti at **JNU New Delhi** India on 18 December 2016.
4. **Session Chair : 7th International Conference on Materials Processing and Characterization (ICMPC-2017)** organized by GRIET Hyderabad India 17-19, March - 2017 is published Material Today Proceeding (**Elsevier Journal**)
5. **Session Chair : The technical session on Manufacturing process-I of 8th International Conference on “Materials Processing and Characterization”(ICMPC-2018)** organized by GRIET Hyderabad India,from 16-18, March – 2018, proceeding published Material Today Proceeding,**Elsevier Journal, dated 16/03/2018**

6. Session Chair : The technical session on Composite Materials-2 of 8th International Conference on “**Materials Processing and Characterization**”(ICMPC-2018) organized by GRIET Hyderabad India, from 16-18, March – 2018, proceeding published Material Today Proceeding, **Elsevier Journal, dated 17/03/2018**
7. Session Chair : The technical session on Smart Energy in the International Conference on “**Smart Energy and communication (ICSEC-2019)**” organized by Poornima Institute of Engineering & Technology at Jaipur India, from 6-7April – 2019, **dated 06/04/2019**
8. Session Chair : The technical session on Smart Energy in the International Conference on “**Smart Energy and communication (ICSEC-2019)**” organized by Poornima Institute of Engineering & Technology at Jaipur India, from 6-7April – 2018**dated 07/04/2019**
9. Session Chair : The technical session on **Manufacturing process-II** of 10th International Conference on “**Materials Processing and Characterization**”(ICMPC-2020) organized by GLA University, Mathura 21-23, Feb – 2020 dated 22/02/2020
10. Session Chair : The technical session on **Simulation and modeling-I** of 10th International Conference on “**Materials Processing and Characterization**”(ICMPC-2020) organized by GLA University, Mathura 21-23, Feb, 2020, dated 22/02/2020
11. Session Chair : International **Convergence-2020**,organized by Poornima Institute of Engineering & Technology at Jaipur India, from 20-21, March 2020.
12. Session Chair : International Conference Titled :Recent Advances in Design, Materials and Manufacturing (ICRADMM 2020), dated 15/10/2020 , organized by Department of Mechanical Engineering, Amity School of Engineering and Technology (ASET), Amity University Madhya Pradesh, Gwalior from 15-16 Oct. 2020
13. Session Chair : International Conference Titled : Advances in Sustainable Technologies ICAST-2020 dated 15/10/2020 , organized by school of Mechanical Engineering, Lovely Professional University Punjab from 06-07 November 2020
14. Session Chair : International Conference Titled : Mechanical Engineering and Managerial Applications for Productivity Enhancement and Marketability (MMPM-2021), jointly organized by department of Mechanical Engineering and Management studies at MANIIT Bhopal, from15-16 September 20221.

Expert Lecture Delivered in FDP/STTP/ Induction Program:

1. Delivered expert lectures in short term training program on “recent trends and challenges in thermal engineering” topic “**Gasification System**” dated 02/04/2015, organized department of mechanical engineering, SATI, Engineering College Vidisha,From 1-5 April 2015 .
2. Delivered expert lectures in short term training program on recent trends and challenges in thermal engineering topic “**High Temperature Fuel Cell**” dated 03/04/2015, organized department of mechanical engineering, SATI Engineering CollegeVidisha, From 1-5 April 2015 .
3. Delivered expert lectures in short term training program on recent trends and challenges in thermal engineering topic “**MCFC Fuel Cell**” dated 04/04/2015, organized department of mechanical engineering, SATI Engineering College Vidisha, From 1-5 April 2015 .
4. Delivered expert lectures in short term training program on Research Methodology, topic “**Research Paper Writing**” dated 21/08/2015, organized department of mechanical engineering, SATI Engineering College Vidisha, From 21-25 August 2015 .

5. Delivered expert lectures in short term training program on Research Methodology, topic **“Simulation And modeling”** dated 22/08/2015, organized department of mechanical engineering, SATI Engineering College Vidisha, From 21-25 August, 2015 .
6. Delivered an expert lectures in short term training program on Research Methodology, topic **“Software Applications”** dated 23/08/2015, organized department of mechanical engineering, SATI Engineering College Vidisha, From 21-25 August, 2015 .
7. Delivered an expert lectures in short term training program on Research Methodology, topic **“Experiment Design”** dated 24/08/2015, organized department of mechanical engineering, SATI Engineering College Vidisha, From 21-25 August, 2015
8. Delivered an expert lectures in short term training program on **Recent Trends and Challenges in Bio-Fuel Technology & Combustion , from 11th -15th May -2018**, sponsored by TEQIP –III, dated 14/05/2018 on the topic Bio Mass gasification techniques
9. Delivered an expert lectures in short term training program on **Recent Trends and Challenges in Bio-Fuel Technology & Combustion , from 11th -15th May -2018**, sponsored by TEQIP –III, dated 12/05/2018 on the topic Combustion of Bio-Mass
10. Delivered an expert lectures one week induction Program on “Research Methodology in Engineering & Applied Science from 25th -30th July 2018, **sponsored by AICTE-ISTE , New Delhi**, organized by ISTE Student Chapter SATI, Vidisha(M.P.), dated 26/07/2018 on topic Research methodology used in pipe component design.
11. Delivered an expert lectures one week induction Program on “Research Methodology in Engineering & Applied Science from 25th -30th July 2018, **sponsored by AICTE-ISTE , New Delhi**, organized by ISTE Student Chapter SATI, Vidisha(M.P.), dated 28/07/2018 on topic Modeling skills use in Research
12. Delivered an expert lectures one week induction Program on “Research Methodology in Engineering & Applied Science from 25th -30th July 2018, **sponsored by AICTE-ISTE , New Delhi**, organized by ISTE Student Chapter SATI, Vidisha(M.P.), dated 30/07/2018 on topic Optimization techniques used in research.
13. Delivered an expert lectures& key note speechin one week AICTE-RGPV joint Teachers Training Program (TTP) on **“Advance in Automobile Engineering”** from 11th -15thFeb-2020,conducted at RJIT , **BSF Academic Tekanpur Gwalior (M.P.)**dated 13/02/2020 on topic “Fatigue Life estimation of piping components”
14. Delivered an expert lectures& key note speech in one week RGPV sponsored FDP on **“Advance tool and techniques for researchers ”** from 7th -9thmarch-2020,conducted at NITM,**Gwalior (M.P.)**dated 8/03/2020 on topic “Meaningful research and Preparation research proposal”
15. Delivered an expert lectures& key note speech on webinar on ISTE membership Benefits & Utilization on 29th Jan 2022 , organized by LNCT University Bhopal (Online).
16. Delivered an expert lectures & key note speech on webinar on Idea Generation and Pitching on 19th February 2020 at RAMA University Kanpur India (Online).

List of Publications: International Journals

Year 2012

- [1] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal. Dr.Prashant Bareder “Review of work done in the field of commercial application of high temperature fuel cells (MCFCs) in stationary power generation” Published in International Journal of Industrial Engineering & Technology (*IJIET*), P.P 61-68, Vol.4 Number1, **2012**, ISSN: 0974-3146.
- [2] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal. Dr.Prashant Bareder “Biomass Gas Distribution and Thermal Analysis in 2-Dimensional Sack model of MCFC fuel single cell through CFD analysis” published in International Journal Mechanical Engineering Research (*IJMER*), P.P 13-27 Vol.2 Number 1, **2012**, ISSN: 2249-0019.
- [3] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal. Dr.Prashant Bareder “The Future aspects of power generation through high temperature fuel cells (MCFCs) versus other fuel cells “ Published in International Journal Scientific Engineering and Technology(*IJSET*), p.p. 102-105 Issue no. 3 , vol. 1, July **2012**, ISSN: 2277- 1581.
- [4] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal. Dr.Prashant Bareder “Mathematical Modeling and Performance Simulation and Optimization of Molten Carbonate Fuel Cell(MCFCs)” Published in International Journal of Engineering Research and Industrial Application,(*IJERIA*) p.p. 299-311 Vol.5, No.3, **August 2012** ISSN: 0974-1518.
- [5] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal. Dr.Prashant Bareder “ The neural network analysis for the single cell of Molten Carbonate Fuel Cell(MCFC) Published in the International Journal of Engineering Research(*IJER*) Vol. No.1, Issue.1 p.p.9-11, Nov.**2012**, ISSN 2319-6890.
- [06] Shrikrishna Dhakad, Dr. Sanjeev Saxena, Dr. Geeta Agnihotri “Fatigue crack growth and life prediction analysis of power plant component using LEFM approach” Published in International Journal of Multidisciplinary research and advance in Engineering (*IJMRAE*), p.p. 131-140, Vol.4 No. **2, April, 2012**, ISSN: 0975- 7074.
- [07] S.K.Dhakad , Sanjeev saxena , Geeta Agnihotri “Life Prediction and crackpropagation analysis for the Pipe weld straight component (PWSC) of power plant”Published in the International Journal on Scientific Engineering and technology(*IJEST*), p.p 112-117.Vol.1 Issue No. 2 , **April 2012**, ISSN: 2277-1581

Year 2013

- [08] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal” Feed Forward Neural Network (FFNN)based model prediction of Molten Carbonate Fuel cells” published in Indian Journal of Applied Research, (*IJAR*) Vol.3,issue 2 **Feb 2013**, ISSN 2249-555.p.p. 142-143
- [09] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal, “Molten Carbonate Fuel Cells (MCFCs) alternative sources of energy generation in the future” published in the Vol.2, issue 4,p.p.14-15 in **April- 2013 of PARIPEX – Indian Journal of Research (PIJR)** is a double-reviewed monthly print-in published journal (ISSN No.2250 – 1991).
- [10]S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal “Cross validation of optimize results using Genetic and Particle Swarm Optimization (PSO) algorithms, for the single cell model of Molten Carbonate Fuel Cell (MCFC)” published in the **International Journal of Scientific Research (IJSR)** (Internationally Indexed Journal with ISSN No.2277 – 8179) is a double-reviewed monthly print-in published journal, Vol.2 issue 4 in the **April -2013**, p.p.122-123.

[11] S.K. Dhakad, Dr.S.C. Soni, Dr.Pankaj Agarwal “The improve the energetic yield of high temperature fuel cell (MCFC) using advance techniques in modeling and optimization analysis: published in International Journal of Advanced Computer Research (**IJACR**)Vol.3 Number 3,Issue11,p.p.277-280,**Sept.2013**.

[12] S.K.Dhakad, et al .” PREDICTION OF FRICTION FACTOR AND NON DIMENSIONS NUMBERS IN FORCE CONVECTION HEAT TRANSFER ANALYSIS OF INSULATEDCYLINDRICAL PIPE Published in **International journal of Mechanical Engineering and Technology (IJMET)** ISSN 0976 – 6340 (Print)ISSN 0976 – 6359 (Online) Vol. 4, Issue 4, **July - August (2013)**, pp. 259-265© IAEME: www.iaeme.com/ijmet.aspJournal **Impact Factor (2013): 5.7731** (Calculated by GISI).

[13] Pankaj ,S. K. Dhakad et al. Force Convection Heat Transfer Analysis through different Channel (Review of work) published in **Indian Journal of Applied Research (IJAR) vol.3 issue 8Aug.2013** ISSN 2249-555X p.p.256-258.

Year 2016

[14] S.K.Dhakad, et al. “Energy Modeling and Optimization Analysis of High Temperature Fuel Cell (MCFCs)” Published in International Journal of Energy Research and Environmental Technology (JERET) p-ISSN:2394-1561, e-ISSN:2394-157X;Vol.3,Issue4)October-December **2016**; pp.235-239.

[15] S.K.Dhakad, et al. “ Arduino based Automatic Irrigation System”Published in International Journal of Energy Research and Environmental Technology (JERET) p-ISSN:2394-1561, e-ISSN:2394-157X;Vol.3,Issue4)October-December **2016**; pp.257-259

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National Journal:

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International Conferences:

Year-2010

[1] S.K. Dhakad, et.al ,”Effect of Stationary fuel Cells (MCFCs) Energy generation on climate change” **2nd International national Conference on climate & Sustainable Management of natural resources”December 5-7, 2010 ITM University Gwalior M.P.**

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Year-2016

[6] S.K. Dhakad, et.al “ **Fatigue failure and life estimation analysis of straight pipe component using LEFM approach**” published in International Conference on Computer Science and Mechanical Engineering (ICCSME) Organized by Institute of Research and Journal (IRAJ) at **Pune** India from 14 August 2016, PP 52-56, ISBN No. 978-93-86083-92-0

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Year 2020

[09] S.K. Dhakad et al. “Design of electric motorcycle”, published in SCEECS-2020: 2020 IEEE International Students' Conference on Electrical, Electronics and Computer Science at Maulana Azad National Institute of Technology Bhopal India, February 22-23, 2020. **2020 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS) 978-1-7281-4862-5/20/\$31.00 ©2020 IEEE 10.1109/SCEECS48394.2020.116**

[10] Neha Yadav and S.K. Dhakad “ICSC-2020 Paper #1570611789 topic 'Optimization of Watermarking in Image by Using Particle Swarm Optimization “ accepted for publication in 6th INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATION (ICSC-2020) March **5th-7th, 2020** Organized by ECE Department Jaypee Institute of Information Technology, Noida (INDIA). **IEEE Conference**

[11] Neha Yadav and S.K. Dhakad, “LARAVEL: A PHP Framework for E-Commerce Website” 9th International Conference on Image Information Processing (ICIIP-2019) , November 15 - 17, 2019 IEEE Conference Record Number #47207 at JUIT at Wagnaghat, district Solan Himachal Pradesh , **India 978-1-7281-0899-5/19/\$31.00 ©2019 IEEE pp. 503-508**

M.E/ M Tech. Thesis Dissertation Guided

S.No.	Name of Candidate	Roll No./Scholar No	Year	Title of Thesis / Dissertation
01	Pankaj Sonkusere	Enrollment No R-1142705 Roll.No.006078 BUI, Bhopal	August 2013	Prediction of Friction factor and non dimension numbers in force Convection heat transfer analysis of insulated pipe cylindrical pipe
02	Manish Shukla	0108ME15ME03 SATI, Vidisha	29 July 2017	Modeling and optimization of EDM Parameters on Al-LM6/B4C Hybrid Composite using GRA Coupled with PCA Algorithm
03	Anurag Jain	0108ME15MT03 SATI, Vidisha	15 July 2018	J-Integral and Crack Growth Analysis of 2D Element using Ansys software
04	Anas Ansari	0108ME15ME02 SATI, Vidisha	31 August 2020	INVESTIGATION OF MECHANICAL PROPERTIES OF SISAL FIBRE AND HUMAN HAIR REINFORCED WITH EPOXY RESIN HYBRID POLYMER COMPOSITE
05	Amrit Kumar	0108ME18MT02	2020	Investigation of methanol blended diesel fuel combustion CI engine LTC technology using EGR
06	Adil Khan	0108CE18ME19 SATI, Vidisha	2020	Efficiently produce of biogas using natural energy sources and new technologies

07	Lokesh Bunkar	0108ME17ME02	2020	Micro Structure and Sliding wear property Evaluation of SiCp Reinforced Aluminium Alloy Composite & Gunmetal: effect of solid Lubricants
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University Recognized *Supervisor & Ph D. Guided*

S.No.	Guide /Co Guide	Name of University	Remark	Faculty
01	Guide	Barkatullah University ,Bhopal	Registered	Faculty of Engineering
02	Co Guide/External Guide	Rabindranath Tagore University (AISECT University) Bhopal	Registered	Faculty of Engineering
03	Supervisor	RGPV, Bhopal	Registered	Faculty of Industrial Technology
04	Supervisor	RGPV, Bhopal	Registered	Faculty of Energy

Research Project:

S.No	Title of project	Funding Agency	Year	PI/CO-PI/ Collaboration	Remark
01	Investigation of Diesel -Methanol CI Engine Combustion for LTC Technology	TEQIP-III	2019	CO-PI Collaboration With IIT Indore	Completed

Ph.D Supervisor

S.No.	Name of Candidate	Title of Thesis / Dissertation	University	Supervisor	Remark
01	Dinesh Agrawal	Fatigue Crack growth and life estimation analysis of piping components in Indian Nuclear power plant-A Comparative Analysis	Registered at Rabindranath Tagore University (AISECT University) Bhopal	Co-Supervisor	Awarded 04/09/2021
02	Anurag Kulshreshtha	Studies on Micro-Architectural Characteristics and Deformation Behaviour of Nano- Particle Reinforced Al-Composite form	Barkatullah University Bhopal	Co-Supervisor	Awarded 22/06/2021
03	Arun kumar Sharma	Experimental Investigation on Tribological , Mechanical and Machining Characterization of Aluminium based hybrid MMC	Sangam University Bhilwara Chittor Rajsasthan	Co-Supervisor	Awarded 16/11/2022
04	Ruchi Chauhan	Studies on treatment of Agriculture waste by down draft Gasifier with energy modeling and performance analysis for environmental management	RGPV, Bhopal Energy & Environment	Co-Supervisor	RDC Complete 9 th Feb 2022
05	Pankaj Sonkushere	Neon material	RGPV, Bhopal Mechanical Engineering	Supervisor	Course Work complete
06	Ankit Roy	Solar energy	RGPV, Bhopal	Supervisor	

		Subject: Energy Technology	Energy		Course Work complete
07	Pradeep Semil	Kitchen Waist management Subject : Chemical Engineering	RGPV, Bhopal Energy & Environment	Co -Supervisor	Course Work completed

Testing and Consultancy:

- Design of Tractor Trolley
- Sluice valves Material Testing
- CI & GI Materials Testing

AICTE Expert Committee Member:

- 1. Appointed by AICTE,EVC** members visited at Government Polytechnic College Jakhanidhar, Terhi, Garhwal, Uttarakhand dated 16/11/2019
- 2. Appointed by AICTE,EVC** members visited at Government Polytechnic College Hindolakhil, Terhi, Garhwal, Uttarakhand dated 17/11/2019
- 3. Appointed by AICTE,EVC** members visited at Government Polytechnic College Gaja Terhi, Garhwal, Uttarakhand dated 18/11/2019
- 4. Appointed by AICTE Scrutiny Committee**, member for verification of documents of applicants who have applied for Technical Institution/adding new programme at SYDENHAM INSTT OF MGMT STUDIES, RES & ENTREPRENEURSHIP EDU, 3RD FLR, B-ROAD, CHURCHGATE, MUMBAI-20 on 17-MAR-2020

Dr. S.K. Dhakad