Dr. Anand Kumar Singh

Room No 401, D-Wing
Niketan Residency,
Behind Manoj Marbles,
Khariwad
Nani Daman 396210
Contact No. – 9106666197
anandsinghsees@gmail.com

CAREER OBJECTIVE

To serve an academic institution with full dedication by contributing to quality teaching, impactful research, and effective academic administration, while continuously upgrading my knowledge and skills in engineering and emerging technologies.

PRESENT JOB PROFILE

Government Engineering College Daman
Assistant Professor in Mechanical Engineering
July 11, 2018 - Current (7+Years)
Total Work Experience – (13+Years)

ROLE & RESPONSIBILITY

For the UT administration of Dadra and Nagar Haveli and Daman and Diu (DNH & DD)	1. Coordinate all outdoor event organized by UT administration of DNH & DD like Celebration of independence day and Republic day, Run for Unity, Beach cleaning, Tree Plantation, Yoga Day etc. 2. BLO supervisor for the Election duty. 3. Chief Coordinator for the establishment of National Institute of Fahion Technology(nift) Daman
For the Government Engineering College Daman	1. College Co-ordinator of Design Engineering 2. Boys Hostel Warden 3. GEC, Daman campus cleaning co-ordinator 4. Unnat Bharat Abhiyan co-ordinator 5. Energy club co-ordinator 6. Senior Supervisor in GTU Examination

	7. Senior Supervisor in Online Exam organised by NTA 8. Maintained extensive knowledge in current research, ensuring teaching met academic standards.
Department of Mechanical Engineering	1. Lab in charge of Heat Transfer, Refrigeration and Air Conditioning, Applied Thermodynamics and Thermodynamics 2. Counsellor member for final year students 3. Design Engineering Coordinator 4. Coordinated with colleagues in continuous reviews and curriculum development, ensuring students received high quality courses. 5. Worked closely with higher authorities to define objectives, guide research and manage deadlines for curriculum
For the Students Section	1. Conducting counselling session, making bridge between subject and students and also with faculty and parents. 2. Audio and Video presentation to understand the depth of the subject 3. Continuously improved subject knowledge by conducting thorough research. 4. Implemented strategic lesson planning, monitoring progress and performance against set targets. 5. Delivered engaging lectures, seminars and tutorials, increasing class productivity. 6. Assisted in planning and development of teaching materials, workbooks and class projects. 7. Role-modelled exemplary behaviour and established lasting relationships with students. 8. Kept records of student attendance, progress and activities to assess individual mastery of subject matter. 9. Nurtured students' social, emotional and academic development by providing in-class support.

ACADEMIC PROFILE

1. **Ph. D** from RKDF University, Bhopal in 2021http://hdl.handle.net/10603/350438

2. **Master's Degree (M. Tech)** from School of Energy and Environmental, DAVV Indore in the year 2013 with 69.20%

3. **Completed Graduation** – Bachelors of Engineering (Mechanical Engineering) from Central India Institute of Technology (CIIT), Indore in the year 2010 with 72.19 %.

4. **Passed Higher Secondary Examination** (12^{th}) from Kendriya Vidyalaya Jamuna Colliery with 50 % in the year 2006.

5. **Passed Senior Secondary Examination** (10^{th}) from Kendriya Vidyalaya Jamuna Colliery with 56 % in the year 2003.

6. NPTEL exam on the subject **Product Design and Development** passed with mark score 80% with Elite + Silver performance in 2024 at SWAYAM Platform

7. NITTTR Bhopal exam on the subject **Intellectual Property Rights** passed with mark score 71% result performance in 2024 at SWAYAM Platform

8. NPTEL exam on the subject **Effective Engineering Teaching In Practice** passed with mark score 77% with Elite + Silver performance in 2025 at SWAYAM Platform

9. NPTEL exam on the subject **Collaborative Robots (COBOTS): Theory and Practice** with mark score 61% with Elite performance in 2025 at SWAYAM Platform

10. NPTEL exam on the subject **Ethics in Engineering Practice** passed with mark score 63% with Elite performance in 2025 at SWAYAM Platform

11. NPTEL exam on the subject **NBA Accreditation and Teaching and Learning in Engineering (NATE) Practice** passed with mark score 71% with Elite performance in 2025 at SWAYAM Platform

12. IGNOU exam on the subject **Industrial Safety and Fire Safety Management** passes with mark score 78% in 2025 at SWAYAM Platform

13. NPTEL exam on the subject **Making Learning Engaging through Interactive Games** passed with mark score 82% with Elite + Silver performance in 2025 at SWAYAM Platform

14. NPTEL exam on the subject **Technical Communication for Engineers** passed with mark score 83% with Elite + Silver performance in 2025 at SWAYAM Platform

15. NPTEL exam on the subject **Research Methodology** passed with mark score 73% with Elite + Silver performance in 2025 at SWAYAM Platform

16. NPTEL exam on the subject **Teaching and Learning in General Programs: TALG** passed with mark score 60% with Elite performance in 2025 at SWAYAM Platform

ACADEMIC CREDENTIAL

1. Lifetime member (LM 105391) of Indian Society of Technical Education.

2.GTU Endorse faculty, File Inward No. 433, Date 10/01/20175.

ACADEMIC PROJECT

National Conference

1. Anand Kumar Singh, Mitesh Patel, "Agro Based Briquettes New Path for Cement Industries" 6th National Conference On Emerging Vistas of Technology in 21st Century organised by Parul Institute of Technology on 3rd and 4th April 2015.

2. Dr. Manish Gangil, Anand Kumar Singh, "New Design, Development and Compare the Analysis of Shell and Tube Heat Exchanger" National Conference Interdisciplinary Research and Innovative Technologies by Sage University Indore on 25th - 26th June 2020.

International Conference

1. M. Gangil, A. K. Singh, "Design Analysis of Warmth Exchanger And Parameter Effect Fouling" presenting on 2nd International Conference on Contemporary Technological Solutions towards fulfilment of Social Needs", Shodh Sangam A RKDF University Journal of Science & Engineering; Vol 02, Issue 03, pp21-27, Sept 2019

2. Dr. Manish Gangil, Anand Kumar Singh, "Comparative Study of Serpentine Tube of Pitch Length 2 inch and 4 inches" International Conference on Construction, Mechanical and Industrial Engineering, ISBN No. 978-93-89732-91-7, held in New Delhi, India pp 50-54, May 2020

3. Dr. Anand Kumar Singh, “Advancing Sustainable Agriculture in India: Current Practices, Methodologies and Future Prospects” on ICSSR sponsored International Conference “Indigenous Knowledge and Customary Practices in Building Community – oriented and Ecologically Sustainable Development Policies and Programs” organised by Dibrugarh University, Dibrugarh, Assam, India on 17th – 18th February 2025

4. Dr. Anand Kumar Singh, “Exploring Assam’s Natural Wealth in the 19th Century: A historical and Comparative Study of Mineral, Forest and Water Resources with reference to the Current Scenario” on International Seminar on “The Treaty of Yandabo and Nineteenth Century Assam” organised by North Lakhimpur College and Directorate of Historical and Antiquarian Studies, Government of Assam, India on 25th – 26th April 2025

5. Dr. Anand Kumar Singh & Dr. Garima Nema “Optimizing HVAC Systems in Pharmaceutical Manufacturing Through Artificial Intelligence for Enhanced Air Quality and Energy Efficiency” on “International Conference on Innovative Smart Solutions for Sustainable Future 2025(MAC-IS3F-2025) organised by Lingaya University Faridabad, Haryana on 22nd May, 2025

Journal Publication

1. Dr Manish Gangil, Anand Kumar Singh, “Experimental Investigation on Shell and Straight Pipe Warmth Exchanger with Parameter and Validate the Result with Taguchi Method” International Journal on Technical and Physical Problems of Engineering, ISSN NO. 2077-3528 Vol. 1, Issue. 13, pp 11-17, Mar. 2021

2. Dr. C. M. Sadiwala, Anand Kumar Singh, “CFD Analysis of Serpentine Pipe Warmth Interchanger” International Journal of Research and Analytical Reviews (E-ISSN 2348-1269, P- ISSN 2349-5138), Volume 5, Issue 4, pp 596-603, December 2018.

3. A K Singh, M. L. Patel, “Design and development of pneumatic punching machine”, International Journal for Technological Research in Engineering Vol 4, Issue 11, pp 2533-2437, E-ISSN: 2347- 4718, P-ISSN: 2347- 9450, July-2017.

4. A. K. Singh, K. R. Natekar “Comparative Study of Diesel Engine by Using Diesel & Biodiesel as Fuel”, “International Journal of Scientific & Engineering Research”, Vol 6, Issue 8, ISSN 2229-5518, pp 16341637, August-2015

5. H. Patel, M. L. Patel, A. K. Singh, "Design and Development of Gimbal" International Journal for Technological Research in Engineering, Vol 2, Issue 10, pp 2225-2226, E-ISSN: 2347- 4718, P-ISSN: 2347- 9450, June-2015.

6. A. K. Singh, R. M. Solanki, "Investigation of Fuel Saving in Annealing Lehr through Magnetic Material Fuel Saver", "International Journal of Science and Research", Vol 4 Issue 5, ISSN NO 2319-7064, pp 178180, May 2015.

7. M. K. Patel, A. K. Singh "A Mathematical Model for Fluting and Cone Grinding of twist drill" International Journal of Trend in Research and Development, Vol 2, Issue 2, ISSN: 2394-9333, pp 1-4 Mar-Apr 2015

8. Singh, A. K. (2025). Enhancing CNC machining precision using AI-based process monitoring and control. Science and Technology Journal, 13(1), 165–176. https://doi.org/10.22232/stj.2025.13.01.15

9. Singh, A. K. (2025, July). Smart cement plants: Enhancing productivity and sustainability with AI. International Journal for Research in Applied Science & Engineering Technology, 13(7), 2801–2807. https://doi.org/10.22214/ijraset.2025.73457

10. Singh, A. K. (2025, August). Revolutionizing fashion: The role of 3D technology in sustainable and customized apparel design. International Scientific Journal of Engineering and Management, 4(8), 1. https://doi.org/10.55041/ISJEM04954

11. Singh, A. K. (2025, September). Exploring the impact of 3D technology on supply chain optimization in the pharmaceutical industry. International Scientific Journal of Engineering and Management (ISJEM), 4(9), 1–10. https://doi.org/10.55041/ISJEM05016

12. Singh, A. K. (2025, October). AI with 3D technology for sustainable healthcare industries: A case study of Assam, India. International Scientific Journal of Engineering and Management, 4(10), 1–12. https://doi.org/10.55041/ISJEM05054

13. Dr. Anand Kumar Singh (2025), A Secure, Voice-Controlled HVAC System Using PIN Authentication for Personalized Indoor Climate Regulation, International Journal of Interdisciplinary Innovative Research & Development (IJIIRD), ISSN: 2456-236X, Vol. 10 Issue 01, pp 65-69, https://doi.org/10.5281/zenodo.16403119

14. Dr. Anand Kumar Singh (2025), Enhancing CNC Machining Precision Using Al-Based Process Monitoring and Control, Science & Technology Journal, Vol. 13 Issue 1, pp 165-176. https://doi.org/10.22232/stj.2025.13.01.15

15. Dr. Anand Kumar Singh (2024), Transforming Education: Exploring the Potential and Pitfalls of the New Education Policy, Mizoram University Journal of Humanities & Social Sciences, ISSN: 2581-6780, Volume 10, Issue 1, pp 149-159

16. Anand Kumar Singh (2015), A Mathematical Model for Fluting and Cone Grinding of twist drill, International Journal of Trend in Research and Development, Volume 2 Issue 2, ISSN: 2394-9333, pp 1-4

Book Publication

17. Book Publication entitle by “Industry 4.0” with ISBN No. 978-93-93557-37-7

18. Chapter No. 44 titled "Education trends in a post-pandemic future in the fields of Engineering Challenges and Opportunities" with ISBN No. 978-93-91772-24-6, Page No. 343-352

19. Chapter No. 3 titled "Challenges and Opportunities in Education sector after Post-COVID India" with ISBN No. 978-93-91772-01-7, Page No. 14-21

WORK EXPERIENCE

S. No	Name of the Organisation	Position	Duration
1	Government Engineering College, Daman	Assistant Professor	From 11.07.2018 to Present
2	KJ Institute of Engineering and Technology Savli	Assistant Professor	From 11.03.14 to 09.06.18
3	Patel College of Science and Technology Indore	Assistant Professor	From 04.07.13 to 09.03.14
4	Yajna Fuel Services Thane	Trainee Engineer	From 26.12.12 to 31.05.13
5	B. M. College Of Engineering and Technology Indore	Guest Lecturer	From 01.08.11 to 22.12.12
6	Shri Vashnav Polytechnic College Indore	Guest Lecturer	From 07.02.12 to 30.07.12

7	RKDF School of Engineering Indore	Lecturer	From 07.03.11 to 30.07.11
8	Shri Vashnav Polytechnic College Indore	Guest Lecturer	From 16.08.10 to 14.01.11

PERSONAL DETAILS

Date Of Birth	:-	09 August 1987
Nationality	:-	Indian
Gender	:-	Male
Language Known	:-	English & Hindi
Marital Status	:-	Married
Wife Name	:-	Mrs. Monika Singh
Adhaar Card No	:-	3827-8656-9287
Pan Card No	:-	CTXPS4299D

DECLARATION

I hereby declare that all the information mentioned here is true and verifiable at any point in time.

Place - Daman

Date –

Prof. Dr. ANAND KUMAR SINGH

GTU Staff Code: 75245

ASSISTANT PROFESSOR

MECHANICAL ENGINEERING DEPARTMENT

GOVERNMENT ENGINEERING COLLEGE, DAMAN

References with their contact numbers

1. Dr Avinash R Chaudhari,

Principal, Government Engineering College Daman

Email id - gecdaman@gmail.com

Mb No. 9426888068

2. Dr Manish Gangil,

Prof. and Head of Department, RKDF University Bhopal

Email id - gangilmanish@gmail.com

Mb No. 9907058666

3. Mr Pushparaj Jiwanpurkar,

Head of Department, Government Engineering College Daman

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