

CURRICULUM VITAE

SAMEER AGRAWAL

Present Address

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Objective

To utilize my teaching skills towards challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society

Teaching Experience (8 years)

- Worked as Assistant Professor in Smt. Kashibai Navale College of Engineering, Pune, from 20th June 2013 to 3rd September 2020.
- Currently working in School of Engineering, Ajeenkya DY Patil University, Lohegaon, Pune, from 7th September 2020 to till date.

Subjects Taught:

B.Tech: Strength of Material	M.Tech: Virtual Product Manufacturing
Theory of Machines	High Precision Manufacturing Engg.
Engineering Graphics	System Reliability
Industrial Engineering	Automotive Project Management
Engineering Design – I & II	Advance Quality Control Technique
Fluid Mechanics	

Subject Expertise

Strength of Material, Theory of Machine

Academic Highlights

- Carried out 1-year full time project (M.Tech. dissertation) from Bhabha Atomic Research Center (BARC, Mumbai) from Aug 2012 to July 2013.
- Refreshed my engineering knowledge by preparing GATE and gained 95.5 percentile in GATE-2011.

Responsibilities Handled:

University Level:

1. **Member** of syllabus detailing core team of “**Solid Mechanics**”, during SE - Mechanical Curriculum (2019 Course) development program, held during May 7-20, 2020.
2. **Member** of syllabus detailing core team of “**Kinematics of Machinery**”, during SE - Mechanical Curriculum (2019 Course) development program, held during May 7-20, 2020.
3. **Moderator** for Strength of Materials subject examination of SPPU.

Institute Level:

In experience with present organization, I dealt with various teaching and administration activities at department, college and university level. I taught different subjects from Mechanical Engineering. Some key responsibilities are,

1. **Subject coordinator** of Strength of Materials.
2. **Lab In-charge** of Strength of Materials Lab and CAD Lab.
3. Departmental In-charge for **Result analysis committee**.
4. **Institute Coordinator** for Dead Stock verification committee.
5. **Departmental Coordinator** for institute's flagship Technical Event **Techtonic - 2k20**.
6. Faculty Coordinator for Student Chapter of "The Institution on Engineers".
7. **Organizer** for Spoken Tutorial IIT Bombay Training at SKNCOE.
8. **Coordinator** for Technical Event **Propulsion (Techtonic 2k15, 2k16, 2k17)**.
9. **Coordinator** for National Level Internship program under MOU of SKNCOE and Experts-Hub. Under this MOU we have conducted 43 Internship programs in a span of last 7 years & trained more than 4000 participants across India and generated more than 25 Lakh Rs. Revenue for Institute.

Apart from this I worked as a coordinator and member of organizing committee for various STTPs, National and State level workshops and internships.

Educational Qualification

1. **M. Tech. (Automobile Engineering) | July 2013**
Mumbai University, Veermata Jeejabai Technological Institute (VJTI), Mumbai
CGPA: 8.7 (1st Class with Distinction)
2. **B.E. (Mechanical) | July 2011**
CSVTU, Bhilai, Chhatrapati Shivaji Institute of Technology, Durg (CG).
Percentage: 76.46 % (Honors), CGPA: 8.38
3. **12th (Science) | May 2007**
CGSEB, Raipur, Saraswati Shishu Mandir, Bhatapara, Raipur (CG).
Percentage: 85.6 % (1st Class with Distinction)
4. **10th | May 2005**
CGSEB, Raipur, Mayur Shishu Mandir, Bhatapara, Raipur (CG).
Percentage: 79.30 % (1st Class with Distinction)

Post Graduate Thesis:

Title: Flow simulation and analysis of two plasma torch system for production of Nanoparticles.

This project was conducted under joint supervision of Bhabha Atomic Research Center (BARC, Mumbai) and University of Pune (Physics Department). The setup of Two torch system was developed by University of Pune. There were problem in measuring temperature and in prediction of flow behavior of plasma gas inside the chamber as the temperature range of gas is 14000K to 20000K. We have analyzed flow behavior of plasma gas inside Two Torch System, which is used for production of Nanoparticles. Numerical analysis is performed using ANSYS Fluent software for different mass flow and temperature of Plasma gas.

Graduate Thesis:

Title- “Fabrication of pipeline cleaning robot.”

In this project we have fabricated a six-wheeled, AC power operated robot, which is able to move inside the pipe of diameter 150-250 mm. A rotating arm carrying a brush is attached to the front part of the robot, which cleans the sludge and dirt inside the pipe.

Publications (09 Nos)

1. Sameer A. Agrawal, Ashish M. Umbarkar, Nitin P. Sherje, Ashish M. Dharme, Dharmesh Dhabliya, Statistical study of mechanical properties for corn fiber with reinforced of polypropylene fiber matrix composite. *Materials Today: Proceedings*.
2. Nitin P. Sherje, Sameer A. Agrawal, Ashish M. Umbarkar, Ashish M. Dharme, Dharmesh Dhabliya, Experimental evaluation of Mechatronics based cushioning performance in hydraulic cylinder, *Materials Today: Proceedings*.
3. S. Kulkarni, P. Bodade, A. Hetkar, A. Patil, **S. Agrawal**, *Design and Development of Damper for Semi-active Suspension System*, *International Journal of Future Generation Communication and Networking*, July 2020.
4. **S. Agrawal**, N. Sherje, A. Umbarkar, *Design and Analysis of Compressor Base Frame for Weight Reduction*, International conference on “Recent Advances in Interdisciplinary Trends in Engineering & Applications (RAITEA-2019), Feb 14th to 16th 2019.
5. R. Dev, A. Patil, A. Neve, M. Badgujar, **S. Agrawal**, *Design and analysis of Multilink Patient Robot*, *Journal of Emerging Technologies and Innovative Research*, Volume 6 Issue 4, April 2019.
6. P. Bhutada, P. Chopda, P. Bhansali, R. Chandak, **S. Agrawal**, *Design and Manufacturing of Vertical Axis Wind Turbine*, *Journal of Emerging Technologies and Innovative Research*, Volume 6 Issue 4, April 2019.
7. P. Kor, N. Hembade, S. Dhadge, P. Wable, **S. Agrawal**, *Design and Fabrication of Portable Chair for Labors*, International Conference on Ideas, Impact and Innovations in Mechanical Engineering (ICIIME-2017), June 1st & 2nd 2017.
8. P. Dhumal, M. Jadhav, R. Tawar, **S. Agrawal**, *Review on Leaf Spring Type Suspension System*, *IJRSET*, Volume 6, Issue 1, January 2017. ISSN (online) – 2319-8753, ISSN (Print) – 2347-6710.
9. R. Jadhav, S. Deshmukh, M. Thakare, M. Chavan, **S. Agrawal**, *System Design of Airless Spray Painting Machine for Mass Production using Gear Pump*, *International Journal of Modern Engineering Research (IJMER)*, January 2016.

STTPs, FDPs and Workshops Attended (22 Nos)

1. “Recent Advancement in Robotics (RAR-2021)”, MIT School of Engineering MIT ADT University, One week International Online Workshop, 18th to 25th January 2021.
2. “Mechanical and Manufacturing Engineering”, AICTE Training And Learning (ATAL) Academy, ISTE Sponsored, 21st to 25th Dec 2020.
3. Curriculum Implementation Workshop for “Solid Mechanics SE (2019 Course)”, Modern Education Society’s College of Engineering, Pune, June 17th, 2020.
4. “Outcome Based Learning”, STES’s Smt. Kashibai College of Engineering Pune, ISTE approved One Week STTP, Dec 20th to 24th, 2019.
5. “Practical Based Designing and System Modeling with Matlab & Simulink”, STES’s Smt. Kashibai College of Engineering Pune, ISTE approved Two Week STTP, Dec 2nd to 12th

- 2019.
6. “Outcome Based Education & NBA Accreditation”, Department of Mechanical Engineering of Rajgad Dnyanpeeth’s Shri Chhatrapati Shivajiraje College of Engineering, Dhanagwadi, Pune, Faculty Awareness Program, May 12th to 17th 2020.
 7. “12 Week NPTEL Online **Elite** certification on Strength of Materials”, Indian Institute of Technology Kharagpur, July – Oct 2019.
 8. “Validation of Mathematical Models with model Based Design and Technique Using MATLAB & Simulink”, STES’s Smt. Kashibai College of Engineering Pune, ISTE approved Two Week STTP, Dec 10th -21st 2018.
 9. “Reverse Engineering and 3D Printing with Application”, Dr. Daulatrao Aher College of Engineering, Karad, ISTE approved One Week STTP, July 16th -21st 2018.
 10. “Recent Advances in IC Engines and Automotive Systems”, Nanasheh Mahadik College of Engineering, Peth, Dec 26th - 30th 2017.
 11. “Model Based Design in Applications of Engineering and Science using Matlab and Simulink”, STES’s Smt. Kashibai College of Engineering Pune, ISTE approved Two Week STTP, Dec 4th -15st 2017.
 12. “National Kart Racing Championship 2017 Season – 4”, RPM International Kart Racing circuit, Bhopal, Sept 29th – Oct 3rd 2017.
 13. “Energy, Environment and Water Conservation”, A. C. Patil College of Engineering, Kharghar Navi Mumbai, June 26th – 01st 2017.
 14. “Automation & Robotics with Hands-on Practice”, STES’s Smt. Kashibai College of Engineering Pune, ISTE approved one Week STTP, June 12th -16th 2017.
 15. “Eight week NPTEL online Certification on Engineering Thermodynamics”, Indian Institute of Technology Kanpur, Jan – Mar 2017.
 16. “Recent Advances in Nanomaterials, Nanotechnology and Nanofabrication”, STES’s Smt. Kashibai College of Engineering Pune, ISTE approved One Week STTP, Dec 11th -16st 2016.
 17. “MATLAB and Simulink - Learning by doing”, Government College of Engineering, Karad, ISTE approved Two Week STTP, June 6th – 18th 2016.
 18. “Syllabus Implementation Workshop for Finite element Analysis (Elective-IV) BE (2012 Course)”, Sinhgad Academy of Engineering Kondhawa, Pune-48, Dec 29th 2015.
 19. “Syllabus Implementation Workshop for Strength of Materials SE (2012 Course)”, STES’s Smt. Kashibai College of Engineering Pune-41, Dec 24th 2013.
 20. “WREN & PECKER Teacher Advancement Program – Level 1 & 2”, Sinhgad Technical Education Society, Pune – 41, Nov 18th – 20th 2013.
 21. “Thermal analysis of Friction Welding”, STES’s Smt. Kashibai College of Engineering Pune, State Level Workshop, October 25th -26th 2013.
 22. “Fault Diagnosis and It’s Condition Monitoring by Vibration Analysis Using FFT and DWT Techniques”, STES’s Smt. Kashibai College of Engineering Pune, National Level Workshop, October 21th – 23th 2013.

STTPs, FDPs and Workshops Conducted (10 Nos)

1. “International Conference on Ideas, Impact and Innovations in Mechanical Engineering (ICIIST-2020)”, STES’s Smt. Kashibai College of Engineering Pune, May 12th 2020.
2. “State Level Project Competition”, Youthcon creative Solutions & Rotary Club of Pune in association with STES’s Smt. Kashibai College of Engineering Pune, April 10th 2018.
3. “International Conference on Ideas, Impact and Innovations in Mechanical Engineering (ICIIME-2017)”, STES’s Smt. Kashibai College of Engineering Pune, June 1st & 2nd 2017.

4. “One day National Level Project & Poster Presentation Competition”, STES’s Smt. Kashibai College of Engineering Pune, April 7th 2017.
5. “One week STTP on Fundamentals of Computational Fluid Dynamics”, STES’s Smt. Kashibai College of Engineering Pune, Feb 20th – 24th 2017.
6. “One day state Level Seminar on Entrepreneurship and Start-Up Business”, STES’s Smt. Kashibai College of Engineering Pune, Jan 4th 2017.
7. “7 days Training Program on Automotive Dynamics and Designing”, STES’s Smt. Kashibai College of Engineering Pune, Dec 22nd – 28th 2016.
8. “One day workshop on Intellectual Property Rights & Patents”, STES’s Smt. Kashibai College of Engineering Pune, Dec 27th 2016.
9. “ISTE approved One week STTP on MATLAB & Simulink”, STES’s Smt. Kashibai College of Engineering Pune, Dec 05th – 10th 2016.
10. “Workshop on Recent Trends in IC Engine Design and Development”, STES’s Smt. Kashibai College of Engineering Pune, Feb 12th – 19th 2016.

Professional Membership:

- Life member of “The Indian Society For Technical Education” (LM112734)
- Member of Society of Automotive Engineers (India) (SAE).

Software Expertise:

- Design Packages: CREO, Auto-Cad.
- Languages Known: MATLAB.
- Other: MS Office, LaTeX (Basic)

Personal Details:

Nationality	:	Indian
Category	:	Open
Date & Place of Birth	:	09/08/1989 & Raipur (CG)
Marital Status	:	Married
Mobile No	:	7743872946
Email	:	sameer.agrawal2011@gmail.com
Languages Known	:	English, Hindi

Place: Pune

Date:

Signature