

Somaiya Vidyavihar University

Name: Prof. Abhishek Pratap Singh Bhaduria		E-mail: abhishekbhaduria@somaiya.edu	
Contact No: 9920750110			
Department/Section: Mechanical Engineering			
College: K. J. Somaiya College of Engineering			
DOJ Somaiya: 23/01/2012	Career Experience: 16 Yrs	Industry Experience: 2.5 Yrs	Teaching Experience: 13.5 Yrs
Present Academic Designation: (Assistant Professor)		Present Administrative Designation: (Principal/Vice-Principal/ Associate Dean/ HOD etc)	

Area of research/specialization and Courses Delivered
<p>Research domain/interests/areas</p> <ol style="list-style-type: none"> 1. Fluid Flow and Heat Transfer 2. Energy Engineering <p>Courses Delivered</p> <ol style="list-style-type: none"> 1. Engineering Mechanics 2. Heat and Mass Transfer 3. Refrigeration and Air Conditioning 4. Automobile Engineering 5. Vehicle Dynamics

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : No
<p>Details of Recognitions</p> <p>University Affiliation: Approved Assistant Professor of Mumbai University – vide letter No. CONCOL-IS-ECD/2012-13/23288 dated 29th November, 2012.</p>			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
PG	M.Tech (Mechanical Engineering)	Mumbai University	V.J.T.I. Matunga, Mumbai, Maharashtra	2010	7.6 CPI
UG	B.Tech (Mechanical Engineering)	R.G.P.V. Bhopal University	M.I.T.S, Gwalior, Madhya Pradesh	2005	80.37 %

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	Sterling Agro Industries Ltd.	Mechanical Engineer	22 nd September 2005	31 st March 2008	2.5
2.	V.J.T.I. Matunga, Mumbai, Maharashtra	Lecturer	1 st July 2010	22 nd January 2012	1.5
3.	K. J. Somaiya College of Engineering	Assistant Professor	23 rd January 2012	Till date	

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Research Accomplishments and Projects			
No of students pursuing Ph.D as on date:		No of students completed Ph.D as on date:	
No of students completed PG thesis / Project work as on date:		No of students / groups completed UG projects as on date: 22	
Publications Total: 05	Number of Peer review Journal papers: 02	Number of Conference papers: 03	
Details of Publications: International Journals <ol style="list-style-type: none"> CFD Analysis of High Temperature and High Velocity System: Plasma Torch in International Journal of Innovations in Engineering and Technology, Volume 10, Issue 4 having ISSN/ISBN No.: 2319-1058 Impact factor: 0.672 National Journals <ol style="list-style-type: none"> Studies on a Solar Heated Packed Bed Pyrolysis Reactor for Bio-oil production in Journal of Biofuels, Year 2018, Volume: 9, Issue: 1, Page 8-16 having ISSN/ISBN No. 0976-3015 Conferences <ol style="list-style-type: none"> Presented a paper in International Conference entitled “Heat and Fluid Flow Analysis in a Seven Segment Thermal Plasma Torch” on Recent Advances in Engineering, Technology and Management –“ SPICON – 2012 – Mechanical” on 02nd June, 2012 at S.P.C.E., Andheri (W), Mumbai. Presented a paper in National Conference entitled “Analysis of a Thermal Plasma Torch using CFD as a Tool” on Two Day National Conference on Emerging Trends in Engineering (NCETE) – 2013 on 05th January, 2013 at M.H.S.S.C.O.E., Byculla, Mumbai. Presented paper in 2nd International Conference entitled “ Design and Development of a cost effective motor test bench published at SSRN – Elsevier online conference publication portal for 2nd International Conference on “Advances in Science and Technology” – (ICAST 2019) organized by KJSIEIT, Sion Mumbai-22 on 8th and 9th April 2019. Books/Book Chapters Patents/Copy Rights <ol style="list-style-type: none"> Copyright on “Novel Vertical Batch Biomass Pyrolysis cum Charcoal Generation System” having Diary No. 820/2020-CO/L as Principal Author. Copyright on “Solar Frangancer” having Diary No. 27104/2021-CO/L as Principal Author. Copyright on “Mathematical Modelling of Polyhouse Structure” having Diary No. 11679/20232-CO/L as Principal Author. Copyright on “Solar Water Purifier” having Diary No. 5070/2023-CO/L as Principal Author. 			
Name of the Faculty/student author of the copyright	Copyright Number	Date of Award	Copyright Awarding Agency
Prof. Abhishek Pratap Singh Bhadauria,	L-90083/2020	03/03/2020	Copyright office, Governemnt of India
Prof. Abhishek Pratap Singh Bhadauria,	L-114181/2022	12/04/2022	Copyright office, Governemnt of

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			India
Prof. Abhishek Pratap Singh Bhadauria,	11679/2022-CO/L (Diary Number)	02/06/2022 (Date of application)	Copyright office, Governemnt of India
Prof. Abhishek Pratap Singh Bhadauria,	5070/2023-CO/L (Diary Number)	26/02/2023 (Date of application)	Copyright office, Governemnt of India
No of Research / consultancy / projects completed: Rs: <u>25000/-</u>	No of Research / consultancy / projects on-going: Rs: _____	No of Research / consultancy / projects on applied as on date: Rs: _____	
Details of Research / consultancy / projects: Completed 1. “Development of laboratory scale unit for solar powered biomass pyrolysis for bio-oil production”.			
IPR/ Copyrights			

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

- i) Attended 2- Days State Level Workshop on “Industrial Fluid Power & its Application” sponsored by University of Pune (under QIP 2011-2012) organized by Department of Mechanical Engg., Sinhgad Institute of Technology, Lonavala on 14th & 15th Feb., 2012.
- ii) Attended 2- Days ISTE Workshop on “Writing Effective Conference Papers”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay, on February 18th & 19th, 2012, at the remote centre: K. J. Somaiya College of Engg., Mumbai.
- iii) Attended 10- Days ISTE Workshop on “Introduction to Research Methodology”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay, from 25th June 2012 to 04th July 2012 at the remote centre: K. J. Somaiya College of Engg., Mumbai.
- iv) Attended 2- Days ISTE Workshop on “Aakash for Education”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay on 10th and 11th November 2012 at the remote centre: K. J. Somaiya College of Engg., Mumbai.
- v) Participated in the CEP Workshop for Coordinators on “Engineering Thermodynamics” conducted by IIT Bombay at Kresit Building, IIT Bombay during 20th November to 24th November 2012.
- vi) Attended 2- Days ISTE Workshop on “Research Methods in Educational Technology”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay, on 2nd February 2013 & 9th February 2013 at the remote centre: K. J. Somaiya College of Engg., Mumbai.

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- vii) Participated in One Week Faculty Development Programme in Mechanical Engg. on “CFD in Engineering Domain using Computing Softwares”, sponsored by TEQIP-II at V.J.T.I., Matunga, Mumbai during 8th July to 12th July 2013.
- viii) Attended 1 Day Workshop on E-Foundry: Casting Design & Simulation conducted by IIT Bombay at V.J.T.I., Matunga, Mumbai on 26th October 2013.
- ix) Attended Two days workshop on “MATLAB and SIMULINK” organized by Electronics Deptt., K. J. Somaiya College of Engg. held on 7th and 8th January, 2014 .
- x) Attended CEP Workshop for Coordinators on “Fluid Mechanics” conducted by IIT Kharagpur at Kalidas Auditorium, IIT Kharagpur during 11th March to 15th March 2014
- xi) Attended 1 Week Training Program on Solidworks Design Validation Software Conducted by Addonix Technologies Pvt. Ltd. at K. J. Somaiya College of Engg., Mumbai in January 2015.
- xii) Attended 1 Week Workshop on “Project Management for National Development” at VJTI Mumbai, sponsored by AICTE under QIP from 5th February to 10th February 2017.
- xiii) Attended 1 Week Workshop on “Nanotechnology Opportunities and Challenges in Engineering Materials and Manufacturing” at VJTI Mumbai, sponsored by AICTE under QIP from 5th March to 10th March 2018.
- xiv) Attended One week AICTE- ISTE approved Workshop on “Emerging Trends in Operations Research” from 24th June to 29th June 2019 at VCET, Vasai Road.
- xv) Attended One Week STTP on “Advanced Machining” from 3rd September to 7th September 2019 at DBIT, Kurla (W), Mumbai
- xvi) Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Cutting Edge Technologies in Energy Storage System for E-Mobility" from 14-07-2021 to 18-07-2021 at KPR Institute of Engineering and Technology.
- xvii) Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on " Redesigning Pedagogy: Educating for Innovation & Fostering for Society" from 21-08-2021 to 25-08-2021 at A. R. COLLEGE OF PHARMACY & G. H. PATEL INSTITUTE OF PHARMACY.
- xviii) Participated in the Online Faculty Development Programme on “ADVANCES IN RENEWABLE ENERGY & SMART GRID INTEGRATION” organized by Department of Electrical & Electronics Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida, India, from 31st May 2022 to 04th Jun 2022.
- xix) Attended 6 Days FDP on “Advanced Manufacturing Processes” for the period of 17th to 22nd October, 2022, organized by LLAGT Krushivardhan Agrotech.
- xx) Attended Two Week online Faculty Development Program on “Research Quality, Teaching Learning Evaluation from 6th February to 19th February 2023 organised by Govt. Motilal Vigyan Mahavidyalaya, Bhopal (M.P.)

Organized

- 1) Worked as a Teaching Assistant for Two weeks ISTE Workshop on “Heat Transfer”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay from 29th Nov. 2011 to 10th Dec. 2011 at the remote centre V.J.T.I., Mumbai.

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- 2) Worked as a Teaching Assistant for Ten days ISTE Workshop on “Computational Fluid Dynamics”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay from 12th June 2012 to 22nd June 2012 at the remote centre : K. J. Somaiya College of Engg., Mumbai
- 3) Worked as a Workshop Coordinator for Two Weeks ISTE Workshop on “Engineering Thermodynamics”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Bombay from 11th December 2012 to 21st December 2012 at the remote centre : K. J. Somaiya College of Engg., Mumbai.
- 4) Worked as a Workshop Coordinator for Two Days Automotive ISDP on “Automotive I. C. Engine Design and Development” conducted by Techfest, IIT Bombay and ExpertsHub (Industry Skill Development Center) at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai on 8th and 9th Feb. 2014.
- 5) Worked as a Workshop Coordinator for Two Weeks ISTE Workshop on “Fluid Mechanics”, under the National Mission on Education through ICT (MHRD, Govt. of India) conducted by IIT Kharagpur from 20th May to 30th May 2014 at the remote centre : K. J. Somaiya College of Engg., Mumbai.
- 6) Worked as Coordinator for One week AICTE-ISTE approved training course on “Emerging Trends in the field of Mechatronics” from 23rd – 27th December, 2019 at Department of Mechanical Engineering, K. J. Somaiya College of Engineering Vidyavihar, Mumbai, 400077

Notable Key Scholastic Achievements


1.	Gold medalist in B.E. Mechanical
2.	Received Best Technical Paper Award by ISTE Committee of K.J. Somaiya College of Engineering, Mumbai for the year 2012-2013.
3.	Excellence Award for scoring 95 % in course on “Foundation Program in ICT for Education” from 8th March to 12th April 2018 conducted by IIT Bombay.
4.	Excellence Award for scoring 100 % in course on “Pedagogy for Online and Blended Teaching-Learning Process” from 3rd May to 18th June 2018 conducted by IIT Bombay.
5.	Secured Elite + Silver and successfully completed SWAYAM, NPTEL Online Course on "Designing Learner-Centric MOOCs" with 75 % Marks (Elite + Silver), conducted by IIT Bombay from 18/01/2021 to 12/02/2021.

Notable Positions and Responsibility

1.	I.S.T.E. Life Time Member
2.	Tribology Society of India (T.S.I.) Life Time Member
3.	S.A.E. Membership
4.	Faculty Advisor ISTE Students’ Chapter KJSCE (MH-60)
5.	OBE representative from KJSCE as a Coordinator
6.	BOS Committee Member (M.Tech Energy Engineering)
7.	Faculty Advisor KJSCE SAE Collegiate Club

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8.	Coordinator honours program in Automobile Engineering
9.	Committee member honours program in Energy Engineering
10.	Committee member minor program in Electric Vehicle



(Abhishek Pratap Singh Bhaduria)
Signature of Faculty Member

Date: 09/09/2024