



Amit Jain

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Department of Chemical Engineering
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Educational Qualification

- **B. E.** – (2001) – First (Hon's) – Institute of Technology, Guru Ghasidas University, Bilaspur (C.G.)
- **M. Tech.**– (2004) – First (Hon's)– Maulana Azad National Institute of Technology, Bhopal (M.P.)
- **Ph.D.** (Pursuing) - Indian Institute of Technology Kharagpur

Teaching Experience (13 years)

- Joined as Lecturer on 4th January 2007, later on designated as Assistant Professor in Department of Chemical Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, (A Central University), Bilaspur (C.G.).

Industrial Experience (About 1.5 years)

- Worked as Graduate Engineer Trainee at HJI Prop GMMCO Ltd., Amlai (M.P.) (C.K. Birla group company) : From 10th September 2005 to 31st May 2006.
- Worked as Project Engineer at E.I. DuPont Ind. (Pvt.) Ltd. Baroda (On pay roll of Team lease services Pvt. Ltd.) : From 07th June 2006 to 02nd January 2007.

Area of Interest

- Membrane separation processes
- Processing of various medicinal herbs and fruit / vegetable juices

Short Term Course / Workshop Attended

Short Term Course : **04**
Workshop : **08**

- Short Term Training Programme on “Hydrocarbon Engineering and Management”, organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar; from November 22-26, 2007.
- Short Term Course on “Scientific Computing in Chemical Engineering”, organized by Indian Institute of Technology (IIT), Guwahati ; from December 06-10, 2010.
- Short Term Training Programme on “Advances in Separation Technology”, organized by Guru Ghasidas Vishwavidyalaya, Bilaspur; from February 06-11, 2012.
- Course on “Effective Communication Skill for Engineers, Scientists and Educators”, organized by Communiqué (The official soft skill society of IIT Kharagpur) Indian Institute of Technology, Kharagpur; from April 02-09, 2016.
- One day workshop on “Latest Development Status of Renewable Energy Sources in India”, organized by Guru Ghasidas Vishwavidyalaya, Bilaspur; on October 13, 2007.
- Two days workshop on “Protection of Copyright and Patent”, organized by MHRD IRP Chair Indian Institute of Technology, Kharagpur; on February 21-22, 2015.

- One day workshop on “Exploratory Data Analysis (EDA)”, organized by Department of Industrial and Systems Engineering, Indian Institute of Technology, Kharagpur; on March 14, 2015.
- One day workshop on “Reference Manager : Use of MENDELEY and ENDNOTE”, organized by Chemical Engineering Research Scholars (CheERS), Department of Chemical Engineering, Indian Institute of Technology, Kharagpur; on September 8, 2016.
- One day workshop on “Product Engineering and Design Idea Competition”, organized by Rajendra Mishra School of Engineering Entrepreneurship, Indian Institute of Technology, Kharagpur; on November 13, 2016.
- One day workshop on “Scientific Writing with the help of LaTeX”, organized by IEEE Student Branch, IIT Kharagpur and IEEE EMB Student Club, IIT Kharagpur; on May 24, 2017.
- One day workshop on “Forecasting contaminant percolation through soil beds in India”, organized by Department of Chemical Engineering, Institute of Technology Kharagpur in collaboration with Mathematical Institute, University of Oxford, UK; on September 12, 2017.
- One day workshop on “URKUND and ZETERO”, organized by Central Library, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) on August 30, 2019.

Orientation Programme / Refresher Course Attended

02

- Participated in UGC Sponsored 21st Orientation Programme, organized by UGC-HRDC, Guru Ghasidas Vishwavidyalaya, Bilaspur from June 04-30, 2018.
- Participated in UGC Sponsored Refresher Course on “Recent Advances in Emerging Areas of Engineering, Technical Education & Research”, organized by UGC-HRDC, Guru Ghasidas Vishwavidyalaya, Bilaspur from 24th June – 06th July 2019.

Book Chapter

01

- Processing of Beverages by Membrane”, in: *Processing and Sustainability of Beverages: Volume-2: The Science of Beverages. Woodhead Publishing, Elsevier, (2019) 517-570.*

Publications in International / National journals

07

- Aqueous extraction of bitter gourd (*Momordica charantia*) juice and optimization of operating conditions, *Fruits*, 71(6) (2016), 379-386.
- Effect of different operating conditions in cloud point assisted extraction of thymol from Ajwain (*Trachyspermum Ammi* L.) seeds and recovery using solvent, *Journal of Food Science and Technology*, 54(13) (2017), 4353-4361.
- Fundamental understanding of fouling mechanisms during microfiltration of bitter gourd (*Momordica charantia*) extract and their dependence on operating conditions, *Food and Bioprocess Technology*, 11(5) (2018), 1012.
- Kinetics of enzymatic hydrolysis of pectinaceous matter in Guava juice, *Journal of Food Engineering*, 221 (2018), 158-166.
- Criteria for a unique steady state for enzymatic depectinization of bael (*Aegle marmelos*) juice in a continuous stirred tank reactor”, *Reaction Chemistry & Engineering*, 3 (2018), 333-343.

- Effect of process parameters on aqueous extraction of thymol and other phytonutrients from herbal seed Ajwain (*Trachyspermum ammi* L.), *Journal of Applied Research on Medicinal and Aromatic Plants*, 11 (2018), 27-36.
- Effects of operating conditions during hollow fiber ultrafiltration of bitter gourd (*Mormordica charantia*) extract and analysis of nutritional qualities in subsequent storage study, *Journal of Food Process Engineering*, 42(5) (2019) <https://doi.org/10.1111/jfpe.13118>

Papers Published in International / National Conferences / Seminars :

14

Member of Professional Bodies

- Life Member : Indian Institute of Chemical Engineering IChE
- Life Member : Institute of Engineers (India) IE(I)
- Life Member : Indian Society for Technical Education ISTE
- Life Member : Indian Science Congress Association ISCA
- Member International Association of Engineers IAENG

Responsibilities Held

- Member “Board of studies” in Chemical Engineering (2012-2015).
- Member “Examination Committee” in Chemical Engineering.
- Member Training and Placement Cell from 2008 to 2011.
- Assistant Centre Superintendent for Vishwavidyalaya Entrance Test (VET) 2010-13.
- Faculty in charge “Chemical Engineering Students Society (ChESS).
- Organizing Secretary – One day workshop on “Latest Development Status of Renewable Energy Sources in India”, on October 13, 2007.
- Joint Secretary – “National Seminar on Recent Advances in Chemical Engineering Operation and Processes in Chemical and Allied Industries” during February 5-6, 2008.
- Member Organizing Committee – “National Seminar on Dakshin Koshal ka Itihaas, Sabhyata awam Samaj : Shodh-Vimarsh (Gouravshali Dakshin Koshal)” during November 5-6, 2019.
- Member : Games and Sports Committee of Institute of Technology from 2009-2014.
- Member : Cultural Committee of Institute of Technology from 2010-2012.
- Coordinator for online data feeding committee for AICTE approval of B.Tech. / M.Tech. Course, 2012-13, 2017-18, 2018-19.
- Co-Coordinator for online data feeding committee for AICTE approval of B.Tech. / M.Tech. Course, 2013-14.
- Teacher Coordinator of Chalchitra (Media Club of SoS, Engineering & Technology).
- Teacher Coordinator of NEXUS (Alumni Interaction Cell to Conduct Alumni Meet of SoS, Engineering & Technology).
- Member : Internal Committee for the Students with Disabilities.

Achievements (Academic)

- Merit certificate by M.P. Board in High School Certificate Exam (Position in Merit List)
- Sixth position in University Merit list in B.E.
- Gold Medal for Best M.Tech. Energy related thesis.

Other Achievements

- Best behavior Award in School.
- Best wicket-keeper award (Cricket) at college level.
- Young Jaina Award 2005 by the All India Jain Community (Maitri Samooh).
- Special Honour by Collector, District: Janjgir-Champa (C.G.) on Independent Day Celebration 2005.
- Special Honour by Barrister Thakur Chhedilal Memorial Academy Chhattisgarh.
- Special Honour ('NSS Ratna') by National Service Scheme (NSS) Akaltara Unit.
- Outstanding Performance Award by E.I. DuPont India Pvt. Ltd. For outstanding contribution in Process Development, Implementation and Commissioning of Project 'Equation Pro'.

Personal Details

- Father's Name : Dr. J. K. Jain
- Mother's Name : Smt. Usha Jain
- Nationality : Indian
- Marital Status : Married
- Category : General (PH)