

**Department of Chemical Engineering**  
**School of Studies, Engineering & Technology**  
**Guru Ghasidas Vishwavidyalaya, Bilaspur**  
**(A Central University)**



**January 2020**



# VISION

**The vision** of the department is to establish itself as one of the best study center of **Chemical Engineering** with a focus on cutting edge technology research and to produce best Chemical Engineers to cater the needs of the society.



# MISSION

**The mission** of the department is to provide quality and the state-of-the art education in Chemical Engineering and allied areas to produce career ready Chemical Engineers. To develop the research culture in fundamental and application oriented problems to foster industry-academia relationship

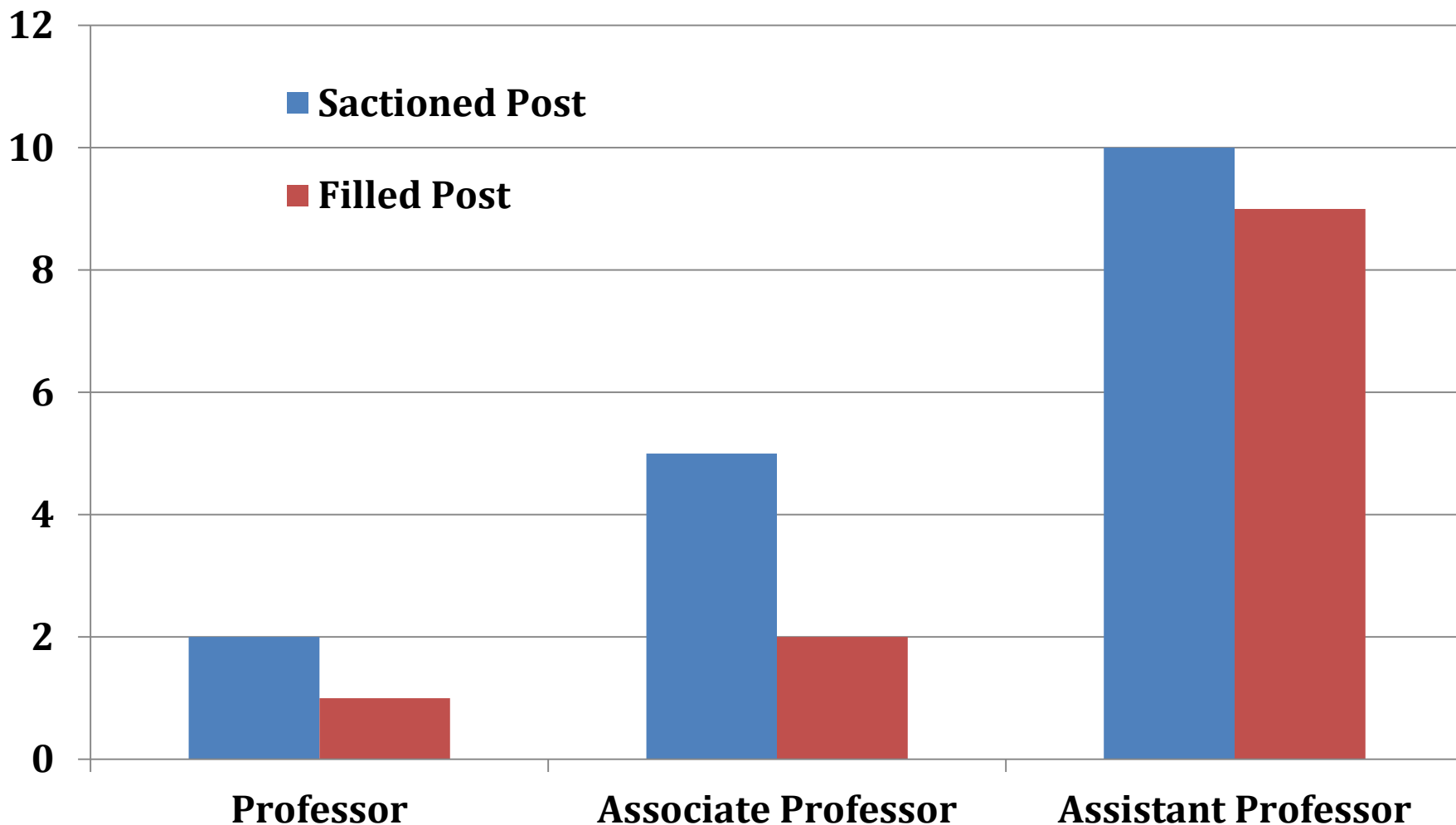


# INTRODUCTION

<b>Year of Establishment</b>	<b>:</b>	<b>1997</b>
<b>Admission to B.Tech.</b>	<b>:</b>	<b>JEE (Mains)</b>
<b>P.G. Course started</b>	<b>:</b>	<b>2012</b>
<b>Admission to M.Tech.</b>	<b>:</b>	<b>GATE,VET</b>
<b>Ph.D. Course started</b>	<b>:</b>	<b>2016</b>
<b>Annual Intake</b>	<b>:</b>	<b>U.G. (75), P.G. (09)</b>
<b>Total Faculty Members</b>	<b>:</b>	<b>11</b>
<b>Total Students</b>	<b>:</b>	<b>117</b>



# FACULTY STRENGTH





# FACULTY DETAILS

Name	Highest Qualification	Designation	Specialization	Experience (years)
<b>Prof. (Dr.) S. N. Saha</b>	Ph.D.	Professor	Fluidization Engg.	40
<b>Dr. Anil Kumar Chandraker</b>	Ph.D.	Associate Prof.	Catalysis, Reactive Separation	13
<b>Mr. Neeraj Chandraker</b>	M. Tech.	Asst. Prof.	Water Purification	18
<b>Mr. Amit Jain</b>	M. Tech.	Asst. Prof.	Membrane Separation	14.5
<b>Mrs. Anuradha Nanewaar Joshi</b>	M. Tech.	Asst. Prof.	Reactive Extraction	16
<b>Mr. Saurabh Meshram</b>	M. Tech.	Asst. Prof.	Water Purification, Modeling	12.5
<b>Dr. Raghwendra Singh Thakur</b>	Ph.D.,	Asst. Prof.	Adsorption, Process Intensification	08
<b>Mr. Gautam Prasad Dewangan</b>	M. Tech.	Asst. Prof.	Computer Added Process & Equipment Design	9.5
<b>Mr. Vishnu Prasad Yadav</b>	M. Tech.	Asst. Prof.	Catalysis, Renewable Energy	07
<b>Dr. (Mrs.) Ghoshna Jyoti</b>	Ph.D.	Asst. Prof.	Process Intensification	2.5
<b>Dr. Sandeep Dharmadhikari</b>	Ph.D.	Asst. Prof.	Membrane Technology	0.5



# CURRICULAM DESIGN & DEVELOPMENT

- Based on the requirement of the current trend and Industrial need the curriculum is revised and upgraded regularly through Board of Studies (BOS), constituted by the University.
- External Expert member in BOS : **Prof. A. B. Soni, NIT Raipur.**
- Last BOS was held on 13<sup>th</sup> May 2019.
- Vocational Training of 04 weeks is mandatory for the award of degree.
- One minor project and one major project in VII and VIII semester respectively are inducted in the curriculum.



# DIVERSITY OF THE CURRICULA

- The Course curriculum includes the subjects from :
  - Core Engineering
  - Basic Engineering and Science
  - Management

	Credits		Weightage (%)	
	UG	PG	UG	PG
Total credits	<b>190</b>	<b>60</b>	<b>100</b>	<b>100</b>
Theory	<b>151</b>	<b>30</b>	<b>79.5</b>	<b>50</b>
Laboratory/ Practical	<b>39</b>	<b>30</b>	<b>20.5</b>	<b>50</b>





# EXAMINATION SCHEME

## DEPARTMENT OF CHEMICAL ENGINEERING

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University Established by the Central University Ordinance 2009, No. 3 of 2009)

### SCHEME FOR EXAMINATION

B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING

### FOURTH YEAR, **EIGHTH SEMESTER**

S. No.	Course	Subject	Periods			Evaluation Scheme			Credits
	Theory		L	T	P	IA	ESE	Total	
01.	CH8TPC16	Process Equipment Design - III	3	1	0	40	60	100	4
02.	CH8TPC17	Project Engineering Economics & Management	3	1	0	40	60	100	4
03.	CH8TPE5X	Professional Electives -II	3	1	0	40	60	100	4
04.	CH8TOE4X	Open Electives -II	3	1	0	40	60	100	4
<b>Practical</b>									
05.	CH8PPC10	Project	-	-	8	60	40	100	4
			12	4	8			500	20

IA – Internal Assessment

Total Marks – 500

Total Periods – 24

ESE – End Semester Examination

Total Credits – 20



# TEACHING LEARNING AND EVALUATION

- Conventional class room teaching using blackboards as well use of semi smart class room
- Teaching with the help of multimedia aids
- Hands on laboratory practice
- Tutorials
- Industrial visit
- Students' Seminars



# TEACHING LEARNING AND EVALUATION

Continuous evaluation system in each semester by **Class Test, Mid Sem Exam and End Sem Examinations**

	Weightage			
	Internal Assessment		End Sem Exam	
	CBCS	AICTE	CBCS	AICTE
Theory	40%	30%	60%	70%
Practical	60%	60%	40%	40%

- Four weeks **Vocational Training** at the end of Sixth semester is mandatory for each student.



# STUDENT FEED BACK

- Subject wise student feedback is carried out confidentially by university authority in each semester.
- Based on the feedback from students, necessary improvement steps are taken.



# FACULTY EVALUATION

Faculty member submits self appraisal report at the end of each academic session in the prescribed format supplied by University administration.



# Grievance Redressal Mechanism

**Mentoring system** : Each faculty member is assigned as mentor for 15-20 students.

**Students grievances are addressed at different levels :**

- Faculty in-charge (Semester wise)
- Head of the department
- Disciplinary committee member
- Assistant Dean Students' Welfare (ADSW)
- Dean School of Studies
- Dean Students' Welfare (DSW)
- Higher authorities of University Management



# LIBRARY FACILITIES

- Central Library (Common facility)
- Institutional Library
  - Text Books : 2057
  - Reference Books : 120
- Journals
  - Online : Springer, Cambridge University, Press, Emerald, Blackwell, Taylor & Francis, Elsevier etc.



# LABORATORY FACILITIES

Name of Laboratory
Basic Chemical Engineering Lab
Fluid Mechanics Lab
Mechanical Operation Lab
Chemical Engineering Computational Lab
Heat Transfer Lab
Mass Transfer Lab (I & II)
Process Control Lab
Chemical Reaction Engineering Lab
Fuel Combustion Engineering Technology Lab
Instrumentation Lab

## Mass Transfer Lab



## Process Control Lab







# LIST OF MAJOR EQUIPMENTS

- Gas Chromatograph
- UV- Spectrophotometer
- Distillation Unit
- Heat Exchangers
- BOD Incubator
- Process Control Equipments
- Interacting and Non-interacting system
- Ion Exchange Equipment
- Batch & Continuous reactors
- Fluidized Bed Apparatus
- Tray Dryer
- Packed Bed Dryer
- Absorption Unit
- Size Reduction Equipments
- Humidification & Dehumidification Apparatus
- Hot Air Oven



# MAJOR EQUIPMENTS



**Fluidized Bed Dryer**



**Distillation Column**



**UV Spectrometer  
Photometer**



**Gas Chromatograph**



**BOD Incubator**



# MAJOR EQUIPMENTS contd.



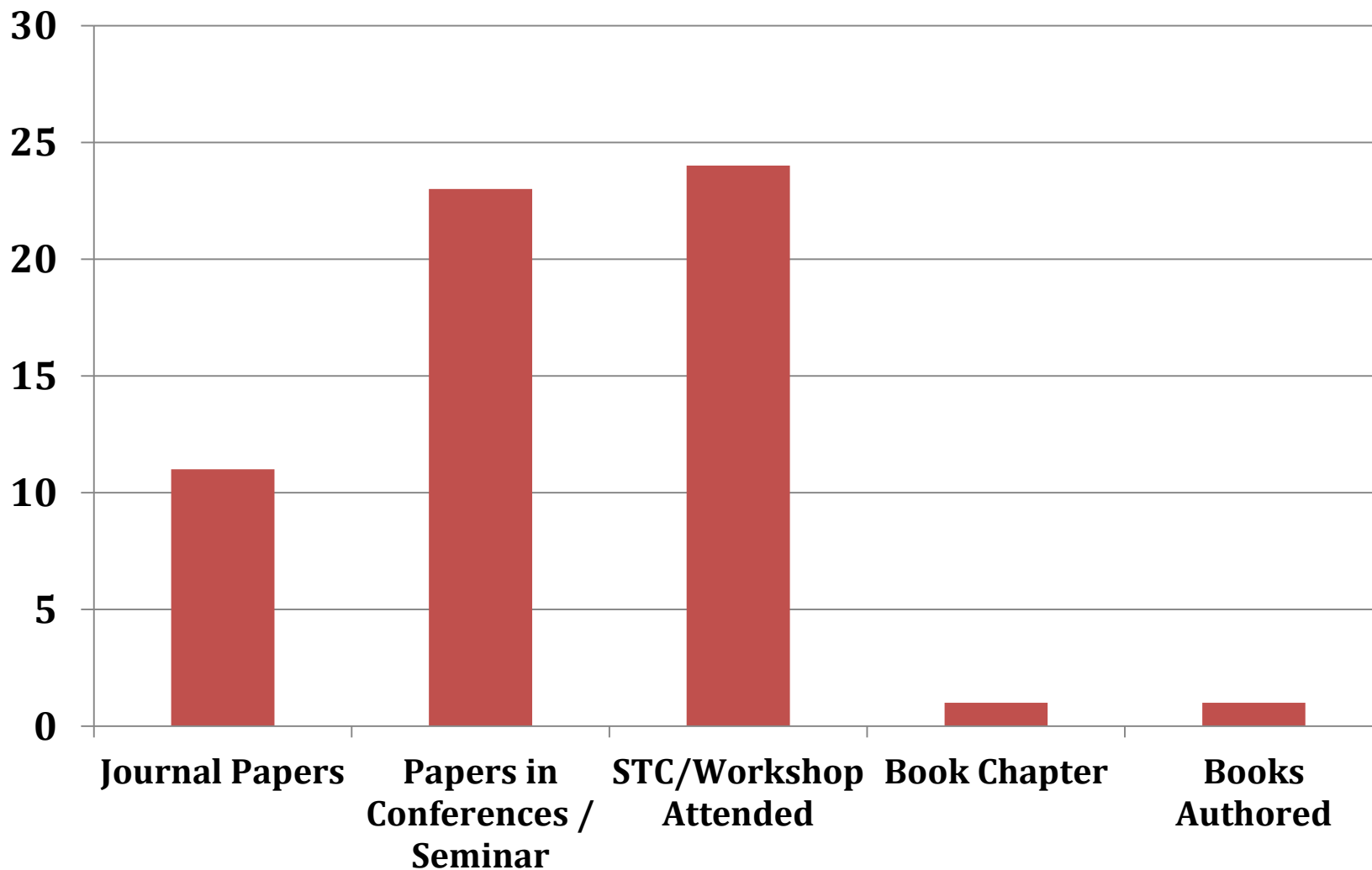


# THRUST AREAS FOR RESEARCH

- Fluidization Engineering
- Catalysis
- Reactive Separation & Extraction
- Membrane Separation
- Water Purification
- Adsorption and Process Intensification
- Computer Added Process & Equipment Design
- Modeling and Simulation



# RESEARCH PUBLICATIONS OVERVIEW





# RESEARCH PUBLICATIONS

1. **R. S. Thakur**, N. Kaistha and D.P. Rao; “Novel single-bed and twin-bed pressure swing adsorption systems” **Chemical Engineering and Processing: Process Intensification**, **2015**, 165-174.
2. P. Debashri, **R. S. Thakur**, and P. K. Chaudhari; "Simulation of FCC riser reactor using five lump model." **International Journal of ChemTech Research**, **2015**, 750-758.
3. V. V. Desmukh, **N. Chandraker**, R. S. Thakur and A. K. Chandrakar; “Analysis of moisture content of pulses pellets using fluidized bed dryer” **Journal of Chemical and Pharmaceutical Research**, **2015**, 7(6), 447-451.



# RESEARCH PUBLICATIONS

4. **A. Jain** and S. De; “Aqueous extraction of bitter gourd (*Momordica charantia*) juice and optimization of operating conditions” **Fruits**, **2016**, 71(6), 379-386.
5. A. K. Prajapati, P. K. Chaudhari, D. Pal, **A. K. Chandrakar**, R. Choudhary; “Electrocoagulation treatment of rice grain based distillery effluent using copper electrode” **Journal of Water Process Engineering**, **2016**, 11, 1–7.
6. **V. P. Yadav**, S. K. Maity and D. Shee; “Etherification of Glycerol with Ethanol over Solid Acid Catalysts: Kinetic Study Using Cation Exchange Resin” **Indian Chemical Engineer**, **2017**, 59(2), 117-135.



# RESEARCH PUBLICATIONS

7. S. Chatterjee, A. Jain and S. De; “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**, **2017**, 54(13), 4353-4361.
8. K. A. Ninga, S. Sengupta, **A. Jain**, Z. S. C. Desobgo, E. J. Nso and S. De; “Kinetics of enzymatic hydrolysis of pectinaceous matter in Guava juice”, **Journal of Food Engineering**, **2018**, 221, 158-166.
9. **A. Jain**, S. Sengupta and S. De; “ Fundamental understanding of fouling mechanisms during microfiltration of bitter gourd (*Momordica charantia*) extract and their dependence on operating conditions”, **Food and Bioprocess Technology**, **2018**, 11(5), 1012-1026.





# RESEARCH PUBLICATIONS

10. S. Sengupta, **A. Jain**, and S. De; “Criteria for a unique steady state for enzymatic depectinization of bael (*Aegle marmelos*) juice in a continuous stirred tank reactor”, **Reaction Chemistry & Engineering**, **2018**, 3, 333-343.
  
11. **A. Jain**, S. Sengupta and S. De; “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**, **2018**, 11, 27-36.



# CONFERENCE PAPERS

1. **A. Jain**, “Optimization of Primary Extraction of Bitter Gourd (*Momordica Charantia*) Juice”, **CHEMCON 2014**, December 27-30, 2014.
2. **R. S. Thakur**, “Separation of CH<sub>4</sub>-N<sub>2</sub> mixture using Pressure Swing Adsorption”, **CHEMCON 2014**, December 27-30, 2014.
3. **N. Chandraker**, “Equilibrium Studies of Hydroxy Acetic Acid by Adsorption Using Activated Charcoal” **Innovative Trends in Computer Science & Information Technology**, February 8-9, 2014.
4. **N. Chandraker**, “Kinetics Studies on the Adsorption of Glycolic Acid Using Various Adsorbents”, **Innovative Trends in Computer Science & Information Technology**, February 8-9, 2014.



# CONFERENCE PAPERS

5. **V. P. Yadav**, “Gul (Tobacco Product) Manufacturing, Analysis its Components by Dimethyl Formaamide Using Spectrophotometer”, **CHEMCON 2014**, December 27-30, 2014.
6. **A. Jain**, “Alternate Rotating Tank Batch Reactor: A New Approach”, **National Conference on ‘Innovation in Engineering’**, February 27-28, **2015**.
7. **R. S. Thakur**, “CO<sub>2</sub> Capture Using Ionic Liquid Impregnated Zeolite Adsorbent in a 4-Bed PSA Process”, **CHEMCON 2015**, December 27-30, 2015.
8. **N. Chandraker**, “Role of ICT in Multicommodity Exchange with Case Study (Crude Oil)”, **National Seminar on Innovation and Research in Science, Management and Technology**, March 29-30, **2015**.



# CONFERENCE PAPERS

9. **A. Chandrakar, N. Chandraker**, “A Review: Halophytes Used for Green Fuel Production”, **National Seminar on Innovation and Research in Science, Management and Technology**, March 29-30, **2015**.
10. **A. N. Joshi**, “Extraction of Neem (AzardirachtaIndica) Oil Using Blends of Hexane, Ethyl Acetate and Acetone”, **National Conference on Recent Advances in Biotechnology & Biofuels**, September 12-13, 2016.
11. **S. N. Saha**, “Technical Institute and Industry Interaction through Total Quality Management-A Rejuvenate Approach”, **International Conference on Bharat Rejuvenation**, October 15-17, **2017**.



# CONFERENCE PAPERS

12. **S. N. Saha**, “Detailed analysis of extracted concrete from *Murraya Koenigii*” **3<sup>rd</sup> International Conference on Bioenergy Environmental and sustainable Technology**, January 28-31, **2015**.
13. **V. P. yadav**, “Evaluation of Convergence time in Manet Using Proposed Algorithm”, **International Conference on Bharat Rejuvenation**, October 15-17, **2017**.
14. **S. Meshram**, “Adsorption Study of Resorcinol onto Iron Impregnated Granular Activated Carbon” **CHEMCON-2017**, December 27-30, 2017.



# CONFERENCE PAPERS

15. **A. Jain**, “Modern Pedagogy in New Era for Teachers and Students”, **International Conference on ‘Quality Enhancement of Higher Education in India & Changing Paradigm**, January 4-5, **2018**.
  
16. **A. Jain**; “Membrane Technology : A Novel Approach in Food Processing”, **National Conference on ‘Indigenous Foods : How to Promote it**, April 19-20, **2018**.
  
17. **A. Chandrakar, A. N. Joshi**, “Applications of Reactive Extraction in Food Industries : A Review”, **National Conference on ‘Indigenous Foods : How to Promote it**, April 19-20, **2018**.



# CONFERENCE PAPERS

18. **G. P. Dewangan**, “Simultaneous Saccharification & Fermentation of Ethanol From Potato Using Saccharomyces Cerevisiae and Bloom Algae”, **CHEMCON-2018**, December 27-30, 2018.
19. **V. P. Yadav**, “Catalytic Esterification of N-Butyric Acid with Ethanol over Zeolite Supported Nickel Catalyst and Sulphuric Acid”, **CHEMCON-2018**, December 27-30, 2018.
20. **G. P. Dewangan**, “Study on circulating fluidized bed system for incineration of municipal solid waste with coal as an auxiliary fuel”, **CHEMCON-2018**, December 27-30, 2018.



# CONFERENCE PAPERS

21. **A. N. Joshi**, “Reactive Extraction of p-Coumaric Acid Using TBP and Natural Diluents”, **CHEMCON-2018**, December 27-30, 2018.
22. **S. Meshram**, “Lead Removal from Battery Recycling Unit Wastewater by Adsorption onto Steam Activated Coconut Shell Granular Activated Carbon”, **International Conference on Advances and Challenges for Sustainable Ecosystem**, December 6-8, 2018.
23. **S. Meshram**, “Removal of Lead from Battery Recycling Unit Wastewater by Adsorption onto Nitric Acid impregnated Granular Activated Carbon”, **CHEMCON-2018**, December 27-30, 2018.





## SHORT TERM COURSE / WORKSHOP ATTENDED

1. Two-day workshop on “Protection of Copyright and Patent” at IIT Kharagpur on during February 21-22, **2015**.
2. One Day Workshop on “Exploratory Data Analysis” at IIT Kharagpur on March 14, **2015**.
3. Recent Advances in Energy Research during March 23-27, **2015**.
4. UGC-Sponsored Refresher Course in Chemistry & Chemical Technology at HRDC GGV Bilaspur during May 01-21, **2015**.
5. One week Faculty Development Programme on Design of Software Metrics for Effective Software refactoring at Vishakhapatnam during December 29, **2015** to January 02, **2016**.



## SHORT TERM COURSE / WORKSHOP ATTENDED

6. Exposure on MATLAB at NITTR Kolkata during December 28, 2015 to January 08, **2016**.
7. “Nonlinear Systems : Mathematical Modelling and Computer Simulations” at NIT Raipur during January 4-8, **2016**.
8. Intellectual Property Rights, IP Commercialization and Prevention of Plagiarism at GGV Bilaspur during January 26-27, **2016**.
9. Mathematical Modeling and Computational Techniques in Science and Engineering at NIT Raipur during March 14-18, **2016**.
10. Short Term Course on “Effective Communication Skill for Engineers, Scientists and Educators” at IIT Kharagpur during April 2-9, **2016**.



## SHORT TERM COURSE / WORKSHOP ATTENDED

11. SAKSHAM-IT Champion Training Program at HRDC GGV, Bilaspur during May 09-14, **2016**.
12. UGC-Sponsored 16<sup>th</sup> Orientation Programme at HRDC GGV, Bilaspur ; from May 30 to June 25, **2016**.
13. Workshop on “Reference Manager: Use of MENDELEY & ENDNOTE” at IIT Kharagpur on September 8, **2016**.
14. Workshop on “Product Engineering and Design Idea Competition” at IIT Kharagpur on November 13, **2016**.
15. One day workshop on Recent Challenges & Opportunities in Chemical Engineering at NIT Raipur on January 30, 2017.
16. Massive Open Online Courses (MOOCs) Training Programme at HRDC GGV, Bilaspur during February 27-28, **2017**.



## SHORT TERM COURSE / WORKSHOP ATTENDED

17. UGC-Sponsored 18<sup>th</sup> Orientation Programme at HRDC GGV, Bilaspur ; from May 01-29, **2017**.
18. LATEX workshop on Technical Report Writing at IIT Kharagpur on May 24, **2017**.
19. UGC-Sponsored Refresher Course in Advances in Engineering & Technology at HRDC GGV, Bilaspur ; from June 5-24, **2017**.
20. One day workshop on “Forecasting Contaminant Percolation through Soil Beds in India” at IIT Kharagpur on September 12, **2017**.
21. AICTE-QIP Short Term Course on Numerical Techniques for Chemical Process Simulations at IIT Kharagpur during November 20-26, **2017**.



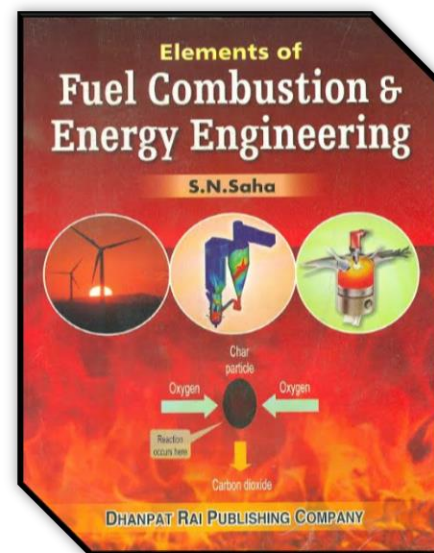
## SHORT TERM COURSE / WORKSHOP ATTENDED

22. UGC-Sponsored 21<sup>st</sup> Orientation Programme at HRDC GGV, Bilaspur ; from June 04-30, **2018**.
23. UGC-Sponsored Refresher Course in Research Methodology at HRDC GGV Bilaspur during June 16 – July 06, **2018**.
24. Faculty Development Program for Student Induction at Pt. Ravishankar University, Raipur during January 12-14, **2019**.



# ACHIEVEMENTS OF FACULTY MEMBERS

- **Prof. S. N. Saha**, Expert Member of the Scrutiny Committee, Appellate Committee and Approval Committee of AICTE, also expert member of National Board of Accreditation (NBA), NAAC.
- **Prof. S. N. Saha**, authored one book in the year 2014 entitled  
**“Elements of Fuel Combustion & Energy Engineering”**  
**Dhanpat Rai Publishing Co., Delhi**  
**(ISBN- 81-87433-34-5)**





# ACHIEVEMENTS OF FACULTY MEMBERS

- **Mr. Amit Jain** (Assistant Professor) authored a book chapter entitled “**Processing of Beverages by Membranes**”.

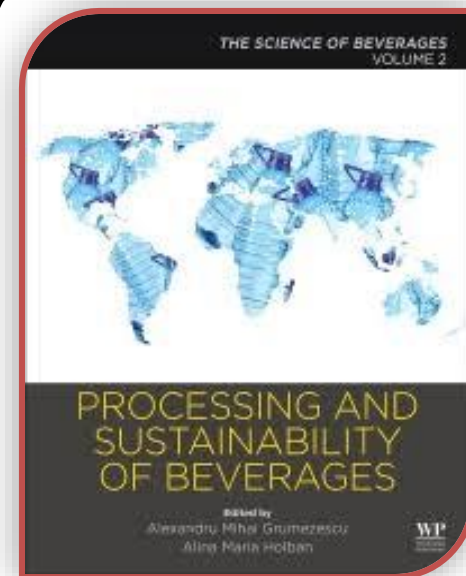
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**Processing and Sustainability of Beverages  
Volume 2: The Science of Beverages**

Published by

**Woodhead Publishing, Elsevier**

**Paperback ISBN: 9780128152591**

**eBook ISBN : 9780128156995**





# ACHIEVEMENTS OF FACULTY MEMBERS

- **Dr. Raghwendra Singh Thakur** (Assistant Professor) appointed as **Reviewer** in **American Journal of Chemical Engineering**
- **Dr. Raghwendra Singh Thakur** (Assistant Professor) Chaired a Session on **CHEMCON-2018** during December 27-30, 2018 at NIT Jalandhar.
- **Mr. Vishnu Prasad Yadav** (Assistant Professor) Chaired a Session on **CHEMCON-2018** during December 27-30, 2018 at NIT Jalandhar.
- **Dr. Raghwendra Singh Thakur** (Assistant Professor) delivered a **Expert Lecture** during National Workshop on **“Advances in Non-Conventional Energy Sources”** at Rungta College Bhilai during December 23-24, **2015**.





# ACHIEVEMENTS OF FACULTY MEMBERS

- **Prof. S. N. Saha** has chaired the technical session on 'Bhartiya Concept of Sustainable Development' of the **International Conference on 'Bharat Rejuvenation'** held in Guru Ghasidas Vishwavidyalaya, Bilaspur, during **15-17 October, 2017**.
- **Prof. S. N. Saha** chaired a technical session in **National Conference on "Indigenous Foods: How to Promote it"** during **19-20 April 2018** organized by Department of Food Processing & Technology, Bilaspur University (Now Atal Bihari Vajpayee Vishwavidyalaya), Bilaspur.



# ACHIEVEMENTS OF FACULTY MEMBERS

- **Prof. S.N. Saha** being a resource person has delivered many lectures in different Orientation Programme and Refresher Courses conducted by HRD Center, Guru Ghasidas Vishwavidyalaya, Bilaspur.



# DEPARTMENTAL ACTIVITIES

- ❁ Department conducted **Chem-O-Philia quiz** competition. It is a national level quiz competition conducted every year by the chemical engineering department, **IIT Bombay** as a part of their chemical engineering technical festival Azeotropy.
- ❁ Department organized **Industrial visit** regularly for Second and Third year students of the department. The purpose of this visit was to increase the practical knowledge about Chemical Engineering process and unit operations.
- ❁ Department have its own students' society Chemical Engineering Students Society (**ChESS**).



# STUDENTS ACHIEVEMENTS

- ❖ **37selection** in **GATE** in last five years.
- ❖ Students selected in various PSU companies through GATE
- ❖ **27 selection** through **campus placement**.
- ❖ **Mr. Himangshu Mondal**, selected as visiting student and conducted a visiting study at **Kyung Hee University, South Korea** by joining the research group of their Chemical Engineering department.
- ❖ **Mr. Himangshu Mondal**, has published two research papers in reputed (SCI / Scopus) Journal.



# STUDENTS ACHIEVEMENTS

- ❖ **Ms. Ayushi Jha** and **Ms. Sakchhi Kumari** have participated in 13<sup>th</sup> Annual Session of Students' Chemical Engineering Congress, "SCHEMCON-2017" held at NIT Rourkela and won the **Best Paper Award**.
- ❖ **Ms. Ayushi Jha** and **Ms. Sakchhi Kumari** have presented the paper in 9<sup>th</sup> International Congress of Environmental Research during February, 8-10, 2018, held at Amity University, Gwalior (M.P.) in collaboration with Journal of Environmental Research And Development (JERAD).



# STUDENTS ACHIEVEMENTS

- ❖ **Mr. Neeteesh Kumar Kaushik** and **Mr. Himansu Gupta** have **filed Indian Patent** for their work “A Hydrogenation Catalyst and a Process There of” carried out during vocational training at Department of Chemical Engineering, VNIT Nagpur.
- ❖ Many students participated in various technical events at various Techfest(s) of different colleges/ University / Institutions and secured First /Second position.



# STUDENTS ACHIEVEMENTS

- ❖ **Ms. Ranjita Das** has won the event title of **JOB FANTASY** (A Mock Job fair to get a flavor of real world of recruitment), during EQUILIBRIO 2k18 in which TIME group has provided 100% scholarship (MBA Entrance coaching) apart from the prize money.
- ❖ **Mr. Vishal Srivastava, Swadesh Kumar Srivastava** and **Aditya Sunil Zalke** have won the first prize (prize money 8000/-) in Chem-E-Car competition organized during EQUILIBRIO 2k18 at Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).



# BEST PRACTICES

- E-books and notes are provided
- Display of Monthly attendance
- Showing of valued answer sheets to students
- Aptitude and GATE practice tests
- Tutorial classes and giving assignments
- Doubts clearing classes
- Previous lecture revision before the each lecture
- Promote students towards research
- Remedial Classes
- Display of Model Answer
- Personality development activities
- Sports facility for students, NSS activity, Tech Fest etc. are also conducted





# OTHER ACTIVITIES



**Campus Placement @ Chemical Engineering Department**



# OTHER ACTIVITIES



**Chem-O-Philia Quiz Competition @ Chemical Engineering Department by IIT Mumbai**



# OTHER ACTIVITIES

सेंट्रल यूनिवर्सिटी

इंजीनियरिंग के छात्र-छात्राओं का औद्योगिक भ्रमण कराया गया

## छात्रों ने समझा केमिकल इंडस्ट्री का कार्य

एड्युकेशन रिपोर्टर | बिलासपुर

सेंट्रल यूनिवर्सिटी के इंजीनियरिंग के छात्रों को औद्योगिक भ्रमण कराया गया। छात्रों को केमिकल इंडस्ट्री की कार्य प्रणाली और उनके तकनीक की जानकारी दी गई।

गुरु घासीदास सेंट्रल यूनिवर्सिटी के अभियांत्रिकी एवं प्रौद्योगिकी अध्ययनशाला के केमिकल इंजीनियरिंग विभाग के चौथे और छठवें सेमेस्टर के छात्र-छात्राओं ने बिलासपुर के औद्योगिक क्षेत्र सिरगिड़ी में स्थित बीईसी फर्टिलाइजर्स में एक दिवसीय औद्योगिक भ्रमण किया। इसका



सीयू के इंजीनियरिंग के छात्रों ने औद्योगिक भ्रमण किए।

उद्देश्य छात्र-छात्राओं को केमिकल इंडस्ट्रीज की कार्य प्रणाली और तकनीक से अवगत कराना था।

छात्र-छात्राओं ने विभाग के सहायक प्राध्यापक अमित जैन, गौतम प्रसाद देवांगन और अनुराधा जोशी के

मार्गदर्शन में बीईसी फर्टिलाइजर्स की दो इकाई सल्फ्यूरिक एसिड और सिंगल सुपर फॉस्फेट की उत्पादन प्रणाली का अवलोकन किया। विभिन्न उपकरणों की कार्य प्रणाली व तकनीकी पहलुओं को समझा। भ्रमण के दौरान शिक्षकों के साथ-साथ कंपनी के उत्पादन विभाग से जुड़े अधिकारियों, इंजीनियरों ने छात्र-छात्राओं के सवालों का जवाब दिया। साथ ही उत्पादन के दौरान आने वाली समस्याओं का समाधान भी बताया। भ्रमण के दौरान छात्र-छात्राओं ने कंपनी की गतिविधियों व उत्पादन प्रणाली को समझा।



Industrial Visit @ BEC Fertilizers





# OTHER ACTIVITIES

## Refresher Course on Recent Advances in Emerging Areas of Engineering, Technical Education & Research (ID)

(24/06/2019 to 06/07/2019)



### Refresher Course

**L to R (Chair)-** DR. ASHUTOSH SINGH, PROF. S. N. SAHA, DR. RATNESH SINGH

**L to R (First Row)-** SHRI PUSHPENDRA KUMAR CHANDRA, DISHA DEWANGAN, MRS. AKANKSHA GUPTA, SOMA DAS, RAKSHA PANDEY, ANURADHA NANEWAR JOSHI, SHWETA SINGH NISHI YADAV, ANITA KHANNA, SHRI SATISH KUMAR NEGI, SHRI SANTOSH SONI, SHRI PANKAJ CHANDRA, SHRI PRASHANT KUMAR JANGDE, SHRI NITIN KUMAR SAHU

**L to R (Second Row)-** SHRI AMIT JAIN, SHRI GAUTAM PRASAD DEWANGAN, SHRI SHRAWAN KUMAR PATEL, SHRI SAUARABH MESHAM, SHRI SUSHANTA SARKAR, SHRI VISHNU PRASAD YADAV, SHRI SUMIT KUMAR GUPTA, SHRI DEEPAK KANT NETAM, SHRI ANAND PRAKASH RAWAL, SHRI AMIT BAGHEL, SHRI ATUL KUMAR SAHU



# OTHER ACTIVITIES



## Refresher Course



# OTHER ACTIVITIES



## Vocational Training



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# Thank You