

1.	<b>Name</b>	Pankaj Kalra	
2.	<b>Designation</b>	Asst. Professor	
3.	<b>Date of Birth</b>	Sept. 8, 1975	
4.	<b>Educational Qualification</b>	<input type="checkbox"/> B.E. (Chemical), Panjab Uni. Chandigarh <input type="checkbox"/> M.Tech.(Chemical Engg ) PTU Jalandhar <input type="checkbox"/> Pursuing PhD (Chemical Engg.) PTU Jalandhar	
5.	<b>Work Experience</b>	<b>Teaching experience: 16 years and 4 months</b>	
		<input type="checkbox"/> Asstt. Prof. at S.B.S. State Technical Campus, Ferozepur	17.07.2000 to till date
		<input type="checkbox"/> Lecturer Stop gap basis at S.B.S. College of Engg. & Tech., Ferozepur	8 months 13.10.1999 to 05.05.2000
		<b>Industrial experience : 2years</b>	
		<input type="checkbox"/> Management Trainee in Nahar Sugar And Allied Industries Ltd., Khanna	one year
		<input type="checkbox"/> Shift Engineer in Pure Foods Ltd., Abohar	one year
		<b>Research : 3 years</b>	
		Others: <input type="checkbox"/> Chairman- Institute Souvenir Committee.: 10 years ( Sept.2006 to till date) <input type="checkbox"/> Teacher-Incharge of ChESS : 4 years. <input type="checkbox"/> TPO Deptt: Presently working for second term (total 4 years). <input type="checkbox"/> Academic Incharge Dept. : 4 years <input type="checkbox"/> Convocation committee: Representative Member of Chemical Dept. :2 years <input type="checkbox"/> Group Photograph for final year students : Organization of Photo-Session : 10 years <input type="checkbox"/> NBA accreditation work: Incharge of the Chemical Dept.	
6.	<b>Area of Specialization</b>	<input type="checkbox"/> Solid oxide fuel cells <input type="checkbox"/> Nano- Synthesis <input type="checkbox"/> Modeling & Simulation <input type="checkbox"/> Alternate Energy Sources	
7.	<b>Subjects teaching at</b>	<b>(a)Undergraduate level:</b>	<input type="checkbox"/> Chemical Process Simulation <input type="checkbox"/> Chemical Reaction Engg. <input type="checkbox"/> Petroleum Recovery Technology <input type="checkbox"/> Alternative Energy Sources & Storage <input type="checkbox"/> Energy Technology <input type="checkbox"/> Chemical Process Instrumentation <input type="checkbox"/> Heat Transfer



			<ul style="list-style-type: none"> <li>➤ Mass Transfer</li> <li>➤ Energy Technology.</li> <li>➤ Mechanical Operation</li> <li>➤ Chemical Process Calculations</li> <li>➤ Environmental Science</li> </ul>
		<b>(b) Post Graduate Level</b>	<ul style="list-style-type: none"> <li>➤ Advanced Mass Transfer</li> <li>➤ Chemical Reaction Engineering</li> <li>➤ Chemical Engineering Thermodynamics</li> <li>➤ Process Modelling &amp; Simulation</li> </ul>
8.	<b>Total Number of Research Publications (Annexure- A)</b>	<b>Published</b> <input type="checkbox"/> Book Chapters -01 <input type="checkbox"/> International Journals-04 <input type="checkbox"/> National Journals- Nil <input type="checkbox"/> International Conferences-10 <input type="checkbox"/> National Conferences-04	
9.	<b>No. of Students Guided</b>		
	<b>Master's</b>	<b>Completed : 02 in progress: 02</b>	
10.	<b>Academics and Achievements and Awards</b>	<ul style="list-style-type: none"> <li>➤ Merit Certificate of standing IInd in Mtech. Examinations securing Ist division with distinction.</li> <li>➤ Co-ordinator of Faculty development programme on “Recent trends in Polymers composites &amp; their Engg. Applications” in collaboration with CIPET Amritsar.</li> <li>➤ Member Board of Studies Petroleum Engineering Department Guru Gobind Singh College of Engineering and Technology, Guru Kashi University, Talwandi Sabo</li> <li>➤ Member Board of Studies Chemical Engineering MRSSTU, BATHINDA</li> <li>➤ Published Newsletter for Dept. Of Chemical Engg. “Catalysis” for the Session July 2013-June 14 and July 2014-June 15.</li> <li>➤ Delivered an expert talk on “Alternative fuels” in Faculty Development programme at AIET , Faridkot on 25th may 2015.</li> </ul>	
11.	<b>Projects Carried out</b>	- Nil-	
12.	<b>Projects in Hand</b>	- Nil-	
13.	<b>Applied Project</b>	- Nil-	
15.	<b>Short-Term Courses Organised as a faculty</b>	<ul style="list-style-type: none"> <li>➤ Co-ordinator of Faculty development programme on “Recent trends in Polymers composites &amp; their Engg. Applications” in collaboration with CIPET Amritsar.</li> <li>➤ Member Board of Studies</li> </ul>	

16.	<b>Short-Term Courses Attended</b>	<b>As per annexure-B</b>
17.	<b>Faculty Development Programmes organized in the Institute</b>	➤ <b>Co-ordinator of Faculty development programme on “Recent trends in Polymers composites &amp; their Engg. Applications” in collaboration with CIPET Amritsar. Member Board of Studies</b>
18.	<b>Membership of professional bodies:</b> ➤ Life Member of ISTE	
19.	<b>Main Extra-Curricular Activities organized :Annexure-C</b>	
20.	<b>Main Curricular and Co-Curricular Activities Organised: Annexure-D</b>	

## **Annexure-A**

### **LIST OF PUBLICATIONS**

#### **(A) International Referred Journals**

##### **Book Chapter**

- Pankaj Kalra, Rajeev Garg; Book Chapter titled "**Solid Oxide Fuel Cells- A Future Source of Power and Heat Generation**" in special edition of Material Science forum "**Engineering Applications of Nano-Science & Nano-Materials**", TransTech publications, ISSN print 0255-5476 Special edition of Material Science forum vol 757, pp 217-241 (2013).

##### **International Journals**

- **Pankaj Kalra, Dr. Rajeev Garg "MODELLING OF A HIGH TEMPERATURE SOLID OXIDE FUEL CELL "** Journal of Energy Technologies and Policy [www.iiste.org](http://www.iiste.org) ISSN 2224-3232 (Paper) ISSN 2225-0573 (Online) Vol.5, No.2, 2015.
- **Pankaj Kalra, Rajeev Garg, Ajay Kumar, A. P. Singh; “Electrical characterization of NiO-CGO composites- SOFC anode precursor- prepared via combustion synthesis route”, International Journal of Innovative research in Science, Engineering & Technology, ISSN 2319-8753 Volume 3, Issue 5, May 2014.**
- **Pankaj Kalra, Rajeev Garg, Neel Kanth Grover and Ajay Kumar; “Structural Properties of Anode Composites Precursor of A Solid Oxide Fuel Cell Prepared Via Combustion Synthesis Route”, Asian Journal of Engineering and applied Technology, ISSN 2249-068X, Pg 36-39 (2012).**

- **Pankaj Kalra, A. P. Singh, Ajay Kumar; “Structural Properties of NiO-CGO Composites precursor prepared via Combustion Synthesis Route”** Asian Journal of Chemistry, ISSN 0970-7077, Vol. 21, No. 10 (2009), S157-161.

## **(B) National Referred Journals**

NIL

## **(C) International Conferences**

- **Pankaj Kalra** and Dr. Rajeev Garg published a paper titled “**Modeling of a Solid oxide Fuel Cell with internal reforming**” in International conference on Frontiers of Material Research and Application (ISBN: 978-93-83842-92-6) held on Oct 30-31 2015 at SBSSTC, Ferozepur.
- **Pankaj Kalra** and Dr. Rajeev Garg published a paper titled “**Advanced Materials for a Solid oxide Fuel Cell**” in International conference on Frontiers of Material Research and Application (ISBN: 978-93-83842-92-6) held on Oct 30-31 2015 at SBSSTC, Ferozepur.
- **Pankaj Kalra** and Dr. Rajeev Garg published a paper titled “**Advanced synthesis techniques for various components of Solid oxide fuel cells- A Review** ” in International conference on Frontiers of Material Research and Application held on Dec 2016 at SBSSTC, Ferozepur.
- **Pankaj Kalra** and Dr. Rajeev Garg published a paper titled “**Advanced synthesis techniques for various components of Solid oxide fuel cells- A Review** ” in International conference on Frontiers of Material Research and Application held on Dec 2016 at SBSSTC, Ferozepur.
- **Pankaj Kalra** and Meenakshi Arora published a paper titled “**Removal of COD and color of Distillery waste water using low cost adsorbents** ” in International conference on Frontiers of Material Research and Application held on Dec 2016 at SBSSTC, Ferozepur.
- Ashima Arora and **Pankaj Kalra**, published a paper titled “**Water Melon waste - a potential adsorbent for removal of pollutants from Water**” in International conference on Frontiers of Material Research and Application held on Dec 2016 at SBSSTC, Ferozepur.

## **(D) National Conferences**

**NIL**

## **(E) Invited Talk**

Delivered an expert talk on “Alternative fuels” in Faculty Development programme at AIET , Faridkot on 25th may 2015.

## **Annexure-B**

### **Faculty Development Programme organized in the Institute**

<b>Sr No</b>	<b>Name of FDP</b>	<b>Dept</b>	<b>From</b>	<b>To</b>
1.	<b>Recent trends in Polymers composites &amp; their Engg. Applications</b>	<b>Chemical Engg. In collaboration with CIPET Amritsar</b>	17-09-14	21-09-14

## **Annexure-C**

### **Main Extra-Curricular Activities organized**

Others:

- Chairman- Institute Souvenir Committee.: 10 years ( Sept.2006 to till date)- Was instrumental in Publication of Souvenir of Engineering students from 2007 batch onwards in the institute.
- Convocation committee: Representative Member of Chemical Dept. :2 years
- Group Photograph for final year students : Organization of Photo-Session : 10 years

# Annexure-D

## **Main Curricular and Co-Curricular Activities Organized**

- Teacher-Incharge of ChESS : 4 years.- Organized various Co-curricular activities like presentations, Group discussions, extempores & industrial visits.
- TPO Deptt: Presently working for second term (total 5 years).
- Academic Incharge Dept. : 4 years
- NBA accreditation work: Incharge of the Chemical Dept. – All accreditation related work of the department and was instrumental in accreditation from NBA, NAAC and during autonomy from UGC.
- Co-ordinator of Faculty development programme on “” in collaboration with CIPET Amritsar.
- Member Board of Studies Chemical Engineering MRSSTU, BATHINDA- Was actively involved in design of Curriculum for 2015 batch scheme of Chemical Engg.