



## Certificate of Membership

We appreciate the contribution of

**Prof. Dr. (Mrs.) Ajay Sareen, President**

of Institution's Innovation Council established under the aegis of MHRD's Innovation Cell at

Hans Raj Mahila Maha Vidyalaya, jalandhar for

the academic year 2018-19 .

Dr. Abhay Jere  
Chief Innovation Officer  
MHRD's Innovation Cell

Mr. Dipan Sahu  
National Coordinator  
MHRD's Innovation Cell

Mr. Ankush Sharma  
Zonal Coordinator  
MHRD's Innovation Cell



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We appreciate the contribution of

**Dr. Anjana Bhatia, Member**

of Institution's Innovation Council established under the aegis of MHRD's Innovation Cell at

Hans Raj Mahila Maha Vidyalaya, jalandhar for

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Dr. Abhay Jere  
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Zonal Coordinator  
MHRD's Innovation Cell



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Dear Sir/Madam,

Warm Greetings from MHRD's Innovation Cell, New Delhi.

**Congratulations! We are pleased to inform that your institute has been selected for establishing Institution Innovation Council (IIC) at your premises as per the norms and directions of Innovation Cell, Ministry of HRD, Govt. of India.**

Kindly be active on AICTE as well as MIC webpage for further updates regarding participation in activities. We are in course of transferring entire portal over [www.mic.gov.in](http://www.mic.gov.in) which may take 3-4 days further.

Thanks & Regards,

Shubham Rana  
Innovation Cell



All India Council for Technical Education  
Ministry of Human Resource Development  
Government of India  
+91 11 29581332



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**Incubation Workshop** in  
Collaboration with IIM Indore  
<http://hmvnews.blogspot.com/search?q=IIM+iNDORE>

Relevant to the era of technology and rapid automation, the PG Department of Commerce and Management hosted a two day workshop on Digital Marketing in collaboration with i5 Summit IIM Indore and Make intern. 6 students namely Gulfam, Anupriya, Vani, Harmehak, Geetanjali and Muskan were selected for participation in the finale of i5 Summit at IIM Indore. 43 students participated in the workshop.



Punjab Startup Yatra Bootcamp

Punjab Startup Yatra Bootcamp was held in Chandigarh University to aware Youth about Harmful effects of Drugs and to Motivate them for living healthy, Drug Free Life.



Students of Chemistry Synthesized Silver Nanoparticles by using Plant Leaves in the **Start Up Laboratory**.  
<https://hmvnews.blogspot.com/search?q=priya+nano>

Dr Ekta Khosla, Associate Professor in Chemistry in Hans Raj Mahila Maha Vidyalaya, Jalandhar has completed a research Project along with her two undergraduate students Ms. Priya Kumari and Anmol Sharma. The trio synthesized silver nano particles by using Indian mythological important plant leaves leaves in the **Start Up Laboratory**. The particles were characterized by UV, FTIR, XRD and TEM.



HMV established first food forest of the region  
<https://hmvnews.blogspot.com/2018/10/hmv-establishes-first-food-forest-of.html>

Hans Raj Mahila Maha Vidyalaya established the First Food Forest of the region 'Atulya Vatika'. It was the joint venture of HMV, Jalandhar Administration and Forest Department. 470 tree saplings of



	<p>Mango, Lemon, Amla, Moringa and Papaya were sown.</p>	
<p>Innovation in Waste Management  <a href="http://hmvnews.blogspot.com/2018/12/hmv-established-solid-waste-management.html">http://hmvnews.blogspot.com/2018/12/hmv-established-solid-waste-management.html</a></p>	<p>The Innovation Cell in collaboration with Municipal Corporation Jalandhar established Solid Waste Management Plant at the premises of Hans Raj Mahila Maha Vidyalaya.</p>	

Waste paper recycling unit

<http://hmvnews.blogspot.com/search?q=waste+paper+recycling+unit>

HMV took another step towards its Mission of Going Green by promoting green technology. The college has installed Waste Paper Recycling Unit which will be utilized to recycle waste/used paper from students, office to generate various eco-friendly items.



## Mushroom Cultivation

Mushroom Cultivation is practiced in College in which students of Graduation and Post Graduation Departments learnt various steps in **Mushroom Cultivation**



Vermicomposting Unit

<https://www.facebook.com/hmvofficial/videos/598079627223768/>

Vermicomposting Unit has been set up in Botanical Garden of College in which Vermicompost is prepared by using Organic Waste.



Vermicompost an Initiative of Zoology Department of Hans Raj Mahila Maha Vidyalaya. #HMV #Jalandhar...

Share

Solar Energy Unit

Solar Panel Unit has been installed College in for optimum utilization of Solar Energy



Workshop on Creative  
Classroom Teaching

<http://hmvnews.blogspot.com/search?q=Workshop+on+Creative+Classroom+Teaching+>

A workshop on Creative Classroom Teaching was organized by the Innovation Cell under IQAC of Hans Raj Mahila Maha Vidyalaya to make classroom a more generative and responsive place.



Fine Arts Department organized Ten Days Hobby classes of Creative Art & Craft items

<http://hmvnews.blogspot.com/2016/10/fine-arts-department-organized-ten-days.html>

Ten Days creative Hobby classes by the Department of Fine Arts was organized by the faculty for the students of B.D., B.F.A. & B.A. (Fine Arts) to learn creative art & craft techniques. Faculty of Fine Arts conducted the workshop and give demonstration to the students. Students participated with great enthusiasm and explored various items which included Pot Painting, Glass Painting, Stone Art, Fabric painting and low relief slabs.



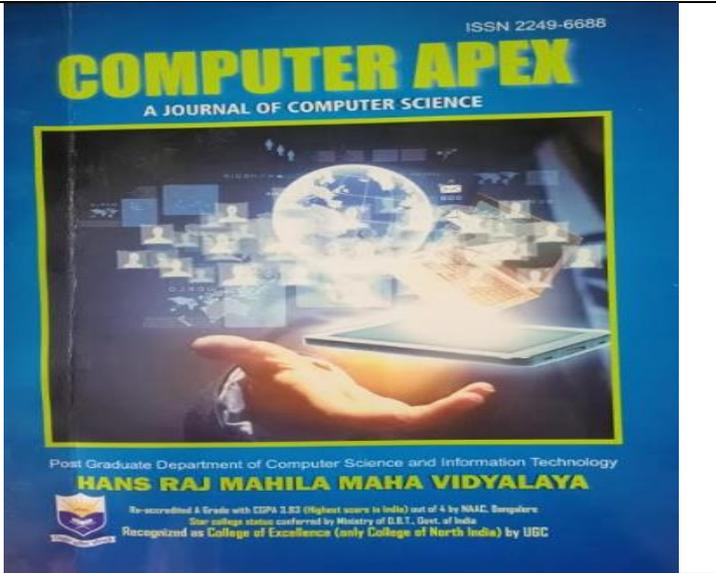
### Cooking Classes

<http://hmvnews.blogspot.com/2017/03/hmv-organized-hobby-classes-in-cookery.html>

3-days Hobby classes in Cooking were organized by Home Science department of Hans Raj Mahila Maha Vidyalaya . Students of different streams participated in the cooking classes. Mrs. Parveen, expert in cooking with fifteen years experience in cooking, conducted these classes. The students learnt 2 snacks, 2 main course dishes and 2 deserts in the said classes. She also gave some useful tips of cooking.



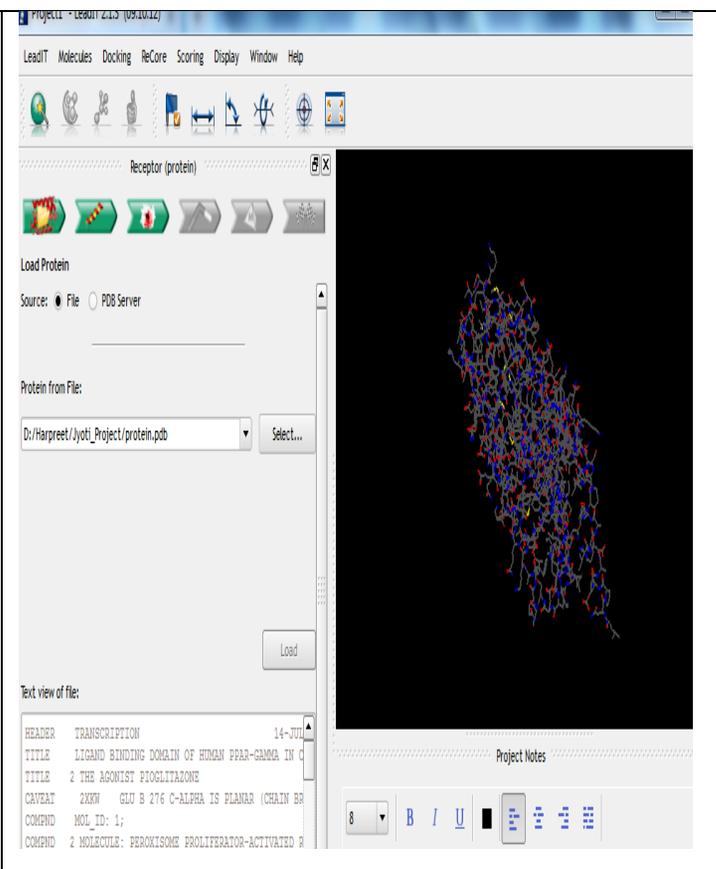
<p>Summer Camp  <a href="https://hmvnews.blogspot.com/search?q=Summer+camp">https://hmvnews.blogspot.com/search?q=Summer+camp</a></p>	<p>Summer Camp organized in Hans Raj Mahila Maha Vidyalaya in which Students learnt swimming, cooking, fitness, nail art, hair styling, screen printing, block printing, public speaking, flower making, paper craft, decorative bags, jewellery designing and photography.</p>	
<p>HMV Fashion Designing students ready for a Start-up  <a href="http://hmvnews.blogspot.com/2019/05/hmv-fashion-designing-students-ready.html">http://hmvnews.blogspot.com/2019/05/hmv-fashion-designing-students-ready.html</a></p>	<p>Giving the wings to the young designers the Incubation Cell of the HMV organized mentoring workshop of Fashion Designing students in collaboration with Ms. Winky Singh the mentor who is owner of Ministry of Design, a unique boutique at New Delhi. Ms. Winky also has</p>	

	<p>the distinction of training the Tihar Jail inmates for designing. The students were provided a platform to work while they study and by the time they will finish their degree they will be earning a handsome amount and be ready for a start-up while they are studying.</p>	
<p>Journals Published in College</p>	<p>Computer Apex, Commerce Spectrum, Indian Journal of Biotechnology, Sahityavlokan and International Journal of Social Sciences.</p>	

		
<p>Tie ups with topmost Indian Institutes for Major Research Projects of Students</p> <p><a href="http://hmvnews.blogspot.com/2017/01/hmv-student-selected-in-indian.html">http://hmvnews.blogspot.com/2017/01/hmv-student-selected-in-indian.html</a></p>	<p>Tanvi Monga, a student of M. Sc. Bioinformatics Semester-IV, was selected to carry on her Major Research Project in the top most research institute of India, the Indian Institute of Science, Bangalore. She worked under the guidance of Dr. Debanath Pal in the Department of Computational and Data Sciences.</p>	

## Well Equipped Research Labs

Research labs are well equipped with the latest hardware and software, IBM Xeon Server, High-end open source as well as paid software including GROMACS, Auto Dock, MOE, ReCore,



V & B Star

11/20/17

**CHEMICAL COMPUTING GROUP**

Harpreet Singh  
 1000, 10th Ave, 10th  
 Toronto, Ontario M5S 1A5

Client Name	Harpreet Singh
Invoice Date	2017-11-20
Invoice Number	11000
PO Number	11001-2017-00000
Contact Person	Harpreet Singh harpreet@chemcomp.com 416-978-8318

Invoice Number	Invoice	Description	Price
11000-001	3	Annual software license for the Molecular Computing Environment (MCE) without scientific support The annual license price includes updates and no support License Period: Jun. 1, 2015 - May 31, 2016	2,100.00
11000-002	3	Annual software license for the Molecular Computing Environment (MCE) without scientific support The annual license price includes updates and no support License Period: Jun. 1, 2016 - May 31, 2017	2,300.00
11000-003	3	Annual software license for the Molecular Computing Environment (MCE) without scientific support The annual license price includes updates and no support License Period: Jun. 1, 2017 - May 31, 2018	2,000.00

Total Amount Due: AUS Dollars: 8,100.00  
 PAYMENT RECEIVED:

**TERMS:**  
 All fees quoted are not payable in CAD and exclusive of all taxes, used in other taxes, customs, duties and other fees. Payment in or to any jurisdiction or authority whatsoever, where taxes, duties and fees shall be the responsibility of Harpreet Singh/Mohit Mahla/Vijayalakshmi unless otherwise stated on the invoice of COG.

**SEND PAYMENTS IN U.S. Dollars**  
 Please ensure that the transfer is for the TOTAL AMOUNT stated on invoice and includes the following information:

Company:	NATIONAL BANK OF CANADA	Address:	500 DE LA SALLE STREET WEST
Swift Code:	BOCCAN33		TORONTO, ONTARIO M5S 1A5, CANADA
Transit number:	0003	Bank Code:	0003
Trailer:	CHEMICAL COMPUTING GROUP INC.	Beneficiary Account Number:	00424 60

**DELIVERY:**  
 The Software and Software License Keys have been delivered to Harpreet Singh.

Chemical Computing Group Inc.  
 1010 Sherbourne Street West, Suite 510, Toronto, Ontario M5S 1A5  
 Tel: +1 (416) 593-1000 Fax: +1 (416) 593-8000 Web: www.chemcomp.com

*Verified*  
*Harpreet Singh*  
*2017/11/20*

11000-001 2,100.00  
 11000-002 2,300.00  
 11000-003 2,000.00  
 Total 6,400.00

11000-001 2,100.00  
 11000-002 2,300.00  
 11000-003 2,000.00  
 Total 6,400.00

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<p>Biofuel</p>	<p>Biofuel has been produced from algae and plants from Euphorbiaceae family under UGC-Major Research Project.</p>	
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<p>Faculty from Chemistry Department has been granted patent</p>	<p>“Surfactant Modified Eucalyptus Bark as a Novel Adsorbent for Removing Basic Dyes”</p>	 <p>The screenshot shows a patent document with the following details:</p> <ul style="list-style-type: none"> <li>(12) PATENT APPLICATION PUBLICATION</li> <li>(19) INDIA</li> <li>(22) Date of filing of Application: 29/03/2012</li> <li>(21) Application No: 940MUM/2012 A</li> <li>(43) Publication Date: 03/01/2014</li> <li>(54) Title of the invention: SURFACTANT MODIFIED EUCALYPTUS BARK AS A NOVEL ADSORBENT FOR REMOVING BASIC DYES</li> <li>(51) International classification: C09C 3/00</li> <li>(31) Priority Document No: NA</li> <li>(32) Priority Date: NA</li> <li>(33) Name of priority country: NA</li> <li>(86) International Application No: NA</li> <li>(87) International Publication No: NA</li> <li>(61) Patent of Addition to Application Number: NA</li> <li>(62) Divisional to Application Number: NA</li> <li>(71) Name of Applicant: KRANTIGURU SHYAMJI KRISHNA VERMA, KACHCHI UNIVERSITY, VERMA KACHCHI UNIVERSITY, MUNDER ROAD, BHUJ (GUJ) 370101, Gujarat India</li> <li>(72) Name of Inventor: BHAYE PRAGNESH N, ZIKAR SATINDAR, JKHUSLA EKTA</li> <li>(57) Abstract: A Field waste Eucalyptus bark is tested for the removal of basic dye from aqueous solution with and without surfactant modification. Different modifications removed basic dyes capably but the cationic surfactant modified bark removed basic dye most efficiently. The mechanism is supposed to proceed through ion exchange instead of adsorption following desorption of surfactant and adsorption of dye.</li> <li>No. of Pages: 19 No. of Claims: 3</li> <li>The Patent Office Journal 03/01/2014 225</li> <li>ABSTRACT: A Field waste Eucalyptus bark is tested for the removal of basic dye from aqueous solution with and without surfactant modification. Different modifications removed basic dyes capably but the cationic surfactant modified bark removed basic dye most efficiently. The mechanism is supposed to proceed through ion exchange instead of adsorption following desorption of surfactant and adsorption of dye. 3 claims, 9 Drawings</li> </ul>
<p>Workshop on Entrepreneurship <a href="http://hmvnews.blogspot.com/2017/08/workshop-on-entrepreneurship-concluded.html">http://hmvnews.blogspot.com/2017/08/workshop-on-entrepreneurship-concluded.html</a></p>	<p>Workshop was organized in collaboration with Makeintern CARPE DIEM IIM, Calcutta. In this workshop, 111 students from PG Deptt. of Commerce, B.Voc. (Banking &amp; Financial Services) and B. Design participated. 7</p>	

	<p>students were selected who to represent HMV in CARPE DIEM Calcutta Championship</p>	
<p>Professional Development Course organized at HMV</p> <p><a href="http://hmvnews.blogspot.com/2017/09/professional-development-course.html">http://hmvnews.blogspot.com/2017/09/professional-development-course.html</a></p>	<p>The Career Counselling Cell of Hans Raj Mahila Maha Vidyalaya organized Professional Development course Level I for the students. The resource person of the course was Mr. Rajneesh Dev Sehajpal, Professional Trainer from Kalptaru Professional and Educational Institute, Gurgaon. During the course, Mr. Rajneesh Dev Sehajpal told the students about Personal Grooming, Time Management, Stress</p>	

	<p>Management, Relationship Management, Behavioural Study and Communication Skills.</p>	
<p>E-TREE  <a href="http://www.hmvelms.org/egarden/index.html">http://www.hmvelms.org/egarden/index.html</a></p>	<p>It is a unique venture of the centre has made information regarding flora and fauna of the college accessible on smart phones of all the students</p>	

