

Indo-European Seminar on Nuclear & High Energy Physics



7th Feb, 2019 Dr. B. R. Ambedkar Auditorium City Campus, Mansa Road, Bathinda

Organized by Department of Physical Sciences Central University of Punjab, Bathinda-151001



Seminar Schedule

Time	Programme		
10:00 a.m10:30 a.m.	Registration		
10:30 a.m 10:40 a.m.	Inauguration		
10:40 a.m 11:00 a.m.	Tea		
	Chairperson: Dr. A. L. Sharma		
11:00 a.m 11:40 a.m.	"Plasma Wakefield Accelerator" by Dr. S K Mahapatra, CUP, Bathinda		
11:40 a.m 12:20 p.m.	"Natural Radiations, Exposure & Health Effects" by Prof, S. Kansal, MRSPTU, Bathinda		
12:20 p.m 1:20 p.m.	Poster Session		
1:20 p.m 2:20 p.m.	Lunch		
Chairperson: Dr. A. L. Sharma			
2:20 n m 2:05 n m	"GSI accelerator: from the Early Universe to Cancer Therapy" by		
2:20 p.m 3:05 p.m.	Prof. Yvonne Leifels, GSI, Germany		
"The nuclear equation of state: what can we learn from heavy ions on each other" by Prof. Christoph Hartnack, University			
3.00 p.m. 3.30 p.m.	Nantes, Nantes France		
3:50 p.m 4:15 p.m.	Tea		
Chairperson: Dr. Ashok Kumar			
4:15 p.m 5:00 p.m. "How atomic nuclei disintegrate: Patterns of instability			
	catastrophic processes" by Prof. Paolo Napolitani, University of Paris-Saclay, France		
5:00 p.m 5:15 p.m.	Concluding remarks by DAA		
5:15 p.m 5:25 p.m.	Vote of Thanks by Dr. Kamlesh Yadav		
5:25 p.m 5:30 p.m.	National Anthem		

Overview of the Seminar

The Indo-European seminar on Nuclear & High Energy Physics was held on 7th February, 2019 at the Dr. B. R. Ambedkar auditorium, Central University of Punjab, Bathinda. The announcement of the seminar was circulated to various colleges and universities in Punjab. The press release for the seminar was covered in the newspaper like Bathinda Bhaskar, E-paper (paper cuttings are shown below).

Students from various departments of this university and other colleges/universities attended the seminar.

The honourable dignitary present in the inaugural session was Prof. R. K. Kohli, Hon'ble Vice-Chancellor, Central University of Punjab, Bathinda, Prof S. Kansal, Head, Department of Physics, MRSPTU, Bathinda and Dr. Gauree Shankar, Head, Department of Mathematics and Statistics, Central University of Punjab, Bathinda. The registration for the seminar started at 10:00 AM and the inaugural session started at 10:30 A.M with university Anthem, which was presented by master students of the department.



Beginning of the inaugural session (Dr. Ekta Rani)



University Anthem presented by students of Department of Physical Sciences

The seminar was inaugurated by Prof. R. K. Kohli, Hon'ble Vice-Chancellor, Central University of Punjab, Bathinda. Prof. R. K. Kohli, gave an inspirational message to the participants. He encouraged the department and students to create innovative ideas. He also appreciated the department for making this seminar possible in a very short duration.



Inauguration of the seminar by Prof. R. K. Kohli, Vice-Chancellor, CUPB

Dr. S. K. Mahapatra, Head, Department of Physical Sciences gave welcome address to honourable dignitaries, keynote speakers delegates, research scholars and students present in the event. He mentioned the achievements and progress of the department.



Welcome address by Dr. S. K. Mahapatra, HoD

We had invited speakers from eminent universities of India along with various foreign universities and research centers. Dr. S. K. Mahapatra (Central university of Punjab, Punjab) talked about plasma wakefield accelerator, it's advantages over other accelerators and bubble regime of plasma wakefield accelerator. Prof. S. Kansal (Maharaja Ranjit Singh Punjab Technical University, Punjab) talked about radiations that exist in nature, exposure of living beings to these radiations and it's correlation with deadly diseases like lung cancer, liver cancer, leukaemia, bone cancer, cancer of prostate, neurological disorders etc. Prof. C. Hartnack (University of Nantes, France) discussed about the nuclear equation of state and collision of heavy ions and corroboration of experimental studies with theoretical model in an attempt to understand the nuclear matter under extreme condition. Prof. P. Napolitani (University of Paris-Saclay, France) talked about disintegration of atomic nuclei, discussing various possibilities such as different types of instabilities acting on the surface or volume and catastrophic processes. Prof. Y. Leifels (GSI Helmholtz Centre for Heavy Ion Research, Germany) gave a brief introduction about GSI accelerator, located in south west Germany. She discussed about the invention of super heavy elements and latest researches on treating tumors with energetic heavy ions. All the talks were quite interesting and insightful for students as well as for researchers.



Dignitaries, keynote speakers and organizing committee



Dr. S. K. Mahapatra (top-left), Prof. S. Kansal (top-right), Prof. C. Hartnack (middle-left), Prof. P. Napolitani (middle-right) and Prof. Y. Leifels (bottom-left)



The invited speakers were honored with mementos and felicitated by the faculty of Department of Physical Sciences.

In the concluding session Prof. P. Ramarao, Dean Acedemic Affair, Central University of Punjab talked about the seminar, achievements of Department of Physical Sciences and Central University of Punjab.



Prof. P. Ramarao concluding the seminar

Dr. Kamlesh Yadav, Assistant Professor, Department of Physical Sciences presented the vote of thanks to honourable guests, organizing committee and students for their valuable contribution in organizing the event. The successful event ended at 5:30 PM with the National Anthem.



Dr. Kamlesh Yadav presenting vote of thanks

The entire schedule of the seminar was divided into various lectures and poster session. In total, 224 students/faculty members from CUPB and various other colleges and universities were registered for the seminar.

The seminar was an effort to acquaint the young talents about different aspects of research on nuclear and high energy physics to nurture and attract them to pursue career in the corresponding research areas as well as to make a step towards the collaboration with the various Universities outside the India



Students/Faculty members attending the seminar

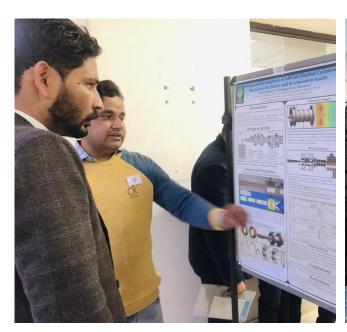
Out of 224 participants, 23 students/faculty members presented posters.



Dr. A. Kumar (Judge for poster session)



Prof. S. Kansal (Judge for poster session)

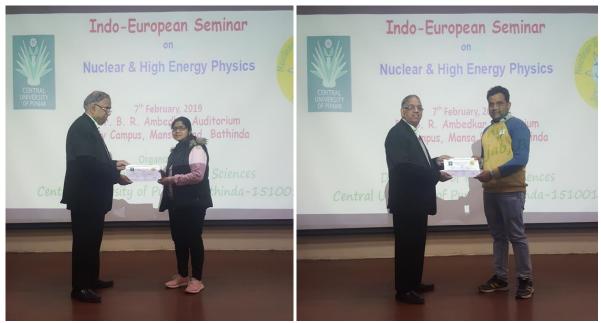


Dr. J. Singh (Judge for poster session)



Participant presenting poster to fellow students

Two students were selected for the best poster award and they were awarded with certificate by Prof. P. Ramarao.



Prof. P. Ramarao awarding best poster certificate to Ms. Supriya Rani and Mr. Ram Sawroop



Poster presentation and discussion

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से फाइनल इयर के नौकरी के इच्छक 75 विद्यार्थियों का चयन किया गया नहीं कर सकते। इस वर्कशॉप का दिन कॉलेज के कंप्यूटर आईटी है तथा इनके लिए वर्कशॉप का मकसद ऐसे विद्यार्थियों को नौकरी विभाग की ओर से विद्यार्थियों को प्रबंध किया गया। उन्होंने बताया के लिए तैयार करना है। उन्होंने कंप्यूटर विषय से संबंधित बेसिक पर हुनरबंद होने के बावजूद नौकरी लगन से जिंदगी में आगे बढ़ने को तकनीक से जुड़कर अपडेट हो

समक्ष अपना हुनर सही ढंग से पेश

स्किल की बारीकियां बताई। दूसरे कि ज्यादातर विद्यार्थी तकनीकी तौर विद्यार्थियों को अपनी मेहनत व जानकारी दी ताकि विद्यार्थी इस हासिल करने से वंचित रह जाते हैं प्रेरित किया। वर्कशॉप के पहले दिन सकें। कॉलेज की ओर से गठित

जर्मनी, फ्रांस के इंस्टीट्यूटों के साथ संयुक्त खोज करें भारतीय शोधकर्ता : प्रो. कोहली

सीयूपी में हाई एनर्जी फिजिक्स पर भारत-यूरोपीय वर्कशॉप आयोजित

भास्कर संवाददाता बढिंडा

यहां पंजाब केंद्रीय विश्वविद्यालय (सीयूपी) के फिजिक्स विभाग ने परमाण और हाई एनर्जी फिजिक्स पर भारत-यूरोपीय वर्कशॉप का आयोजन किया। इसका उद्देश्य परमाणु और हाई एनर्जी फिजिक्स के प्रति युवाओं को जानकारी प्रदान सिंह करना था। वर्कशॉप में भारत, फ्रांस होंने और जर्मनी के ख्यात विज्ञानी शामिल हुए।

> सीयुपी में फिजिक्स विभाग के प्रमुख डॉ. एस महापात्र ने को जर्मनी और फ्रांस के रिसर्च मेडिकल साइंस, फॉरेंसिक साइंस, स्पेस टेक्नोलॉजी आदि में मशीन के जरिये प्रयोगों की व्याख्या की। अपने अध्यक्षीय भाषण में यवोन लिफेल्स ने सुपर हैवी विश्वविद्यालय के कुलपति प्रो.



हाई एनर्जी फिजिक्स के क्षेत्र में महत्वपुर्ण भूमिका निभा सके। उन्होंने भारतीय शोधकर्ताओं इंस्टीट्यूटों के साथ संयुक्त खोज करने के लिए प्रोत्पाहित किया।

एलीमेंट्स पर एक प्रस्तुति दी और आरके कोहली ने परमाण और दक्षिण पश्चिमी जर्मनी में स्थित नकारात्मक प्रभावों पर बात की।

जीएसआई हेल्महोल्टज सेंटर में ऐसी खोजों की जरूरत पर जोर समर-स्टुडेंट प्रोग्राम के बारे में दिया, जो हमारे दैनिक जीवन में बताया। फ्रांस की युनिवर्सिटी ऑफ नैनटस के प्रो. क्रिस्टोफ हार्टनेक ने परमाणु समीकरण, युनिवर्सिटी ऑफ पेरिस-सैकेले के प्रो. पाओलो नेपोलिटानी ने परमाणु टकराव और एमआरएसपीटीय बठिंडा के प्रो. जीएसआई जर्मनी के प्रो. संदीप कंसल ने प्राकृतिक विकिरणों (रेडिएशन) के कारण पैदा प्राणियों पर रेडिएशन के सकारात्मक और

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नागरण संवाददाता, वावद्यः : माइ ब्रम कांड के आरोपितों को पकड़ने की मांग को लेकर अब शिरोमणि अकाली दल अमृतसर ने संघर्ष की चेतावनी दी है। इस संबंध में बठिंडा प्रेस क्लब में की गई प्रेसवार्ता के दौरान महासचित्र गुरसेवक सिंह जवाहरके ने कहा कि बंग कांड की घटना में 5 बच्चों सहित कुल सात व्यक्तियों की जान चली गई थीं ओर 25 अन्य व्यक्ति घायल भी हुए थे। इतनी बड़ी घटना के आरोपियों को नामजद तो कर दिया गया, मगर साजिश रचने वालों

शिरोमणि अकाली दल अमृतसर ने मौड़ वम कांड के आरोपितों को पकड़ने के लिए आवाज की वुलंद

उन्होंने कहा कि पीड़ित परिवार मुआवजे को भटक रहे हैं। अगर सरकार ने 8 मार्च तक नामजद आरोपितों को गिरफ्तार नहीं किया तो पार्टी बरगाडी मोर्चे की तर्ज पर ही अन्य समान विचारधारा की पार्टिवों को साथ लेकर बमकांड वाले स्थान पर मौड को अभी तक गिरपतार नहीं किया गया। में ही पक्का घरना शुरू करेगी।

सस्कार का तरफ स फूड प्रासासग क्षेत्र निवेश करने के लिए दी जा रही सविधा के बारे जानकारी दी गई।

सिञ्बन ने बताया कि लाडोवाल मे फूड पार्क में अंतरराष्ट्रीय स्तर के निवेशः गोदरेज- टाइसन फुड्स, इस्कॉन वाला-फूड्स और मीट मास्टर ने निवेश कर अपने प्रोजेक्ट तैयार कर लिए हैं। अ निवेशकों की तरफ से औद्योगिक प्लाटों ह खरीदो-फरोख्त करके जरूरी कार्रवाई ए की जा रही है। उन्होंने निवेशकों से आहव किया कि वे कलस्टर बनाकर इस क्षेत्र

भौतिकी ऊर्जा पर संगोष्टी

जागरण संवाददाता, वविद्धाः पंजाब केंद्रीय विश्वविद्यालय के भौतिक विज्ञान विभाग ने परमाणु व उच्च ऊर्जा भौतिकी पर एक भारत यूरोपीय संगोष्ठी का आयोजन किया। इसे संगोष्टी का उद्देश्य परमाणु व उच्च ऊर्जा भौतिकी के प्रति युवाओं का पोषण करना था। इस कार्वशाला में विभिन्न संस्थानों के प्रतिभागियों ने भाग लिया। मुख्य वक्ता में भारत, फ्रांस और जर्मनी के प्रख्यात के प्रमुख डॉ. एस महापात्र ने दर्शकों का स्वागत किया। संगोध्डी का विषय पेश किया और विभिन्न क्षेत्रों जैसे चिकित्सा विज्ञान, फोरेंसिक विज्ञान, अंतरिक्ष प्रौद्योगिकी की व्याख्या की।

अध्यक्षीय भाषण में कुलपति प्रो. आरके कोहली ने घरमाणु और उच्च ऊर्जा भौतिकी के क्षेत्र में अनुसंघान



सेंट्रल युनिवर्सिटी में करवाए गए कार्यक्रम के दौरान मौजूद धिद्यार्थी।

यह हमारे दिन-प्रतिदिन के जीवन में के साथ ट्यमर के इलाज पर नवीनत व्यक्ति शामिल थे। भौतिक विज्ञान विभाग महत्वपूर्ण भूमिका निभा सके। उन्होंने भारतीय शोधकर्ताओं को जर्मनी और फ़ांस के अनुसंधान संस्थानों के साथ संयुक्त सहयोगी अनुसंधान करने के लिए भी प्रोत्साहित किवा है। जीएसआई जर्मनी के प्रो बवोन लिफेल्स ने दक्षिण पश्चिम जर्मनी में स्थित जीएसआई त्वरक के बारे में एक संक्षिप्त परिचय दिया। उसने सुपर हैं श्री एलिमेंट्स पर एक की आवश्यकता पर जोर दिया। ताकि प्रस्तति दी और ऊर्जावान भारी आयनों

शोध पर ब्रांत की। फ्रांस की यूनिवर्सि ऑफ नैनटस के प्रो क्रिस्टोफ हार्टने ने परमाणु समीकरण के विचार को ब डायनेमिक अवधारणा के रूप में प्रस्त किया। फ्रांस की यूनिवर्सिटी ऑफ पेरि सैकेले के प्रो पाओलो नेपोलियनी डिसिपेटिव परमाणु टकराव के बारे बात की । उन्होंने सिस्टम के आयतन ब सतह पर विभिन्न प्रकार की अस्थिरताः

डेरा बाबा हीरा सिंह को जेनरेटर भेंट किया

संस, रामा मंद्री : गांव जजल स्थित डेरा बाबा हीरा सिंह को गुरु गोबिंद सिंह रिफाइनरी फुल्लोखारी के प्रबंधकों की ओर से जेनरेंटर भेंट किया गया।

इस बारे जानकारी देते हुए डेरा बाबा हीरा सिंह के गदीनशीन सेंत ज्ञान दास ने कहा कि रिफाइनरी के नजदीकी क्षेत्र में रिफाइनरी प्रबंधकों द्वारा बहुत सारे सामाजिक कार्य किए जा रहे हैं जो कि बहत ही सराहनीय हैं।

चाइनीज डोर के खिलाफ चल

संवाद सहयोगी, वविंडा : लाइनपार इलाके में चाइनीज होर के खिलाफ समाजसेवी रक्तदानी बीरबल बांसल की ओर से चलाए गए अभिवान से प्रभावित होकर दो बच्चों ने चाइना होर का बाबकाट करते हुए घर में पड़े दो चाइना डोर के गट्ट लाकर समाजसेवी बीरबल बांसल को दिए और कहा अंकल इसे जला दो, आज के बाद वह चाइनीज डोर का इस्तेमाल नहीं करेंगे। बीरबल बांसल ने बच्चों की



बिटंडा के प्रलाप नगर में समाजसेवी धीरवल बांसलय अन्य बच्चों की और से दिए गए चाइनीज होर के गट्टू जलाते हुए।

प्रशंसा करते हुए उनके सामने ही चाइनीज डोर के गट्ट को जला दिवा।

Details of poster presentations

Poster No	Name of University/College	Name	Designation	Title
POS-01	Central University of Punjab, Bathinda	Ram Sawroop	Ph.D Scholar	Design and Simulation of 2.45GHz Microwave Ion Source Implanter and Plasma Diagnosis Facility
POS-02	Maharaja Ranjit Singh Punjab Technical University, Bathinda	Supriya Rani	Ph.D Scholar	Estimation of Uranium Concentration in Water samples for Radiological risk assessment using LED Fluorimeter
POS-03	Maharaja Ranjit Singh Punjab Technical University, Bathinda	Amit Kumar Single	Ph.D Scholar	Measurement of Radon Concentration in water samples for Dose Assessment using Smart RnDuo
POS-04	Maharaja Ranjit Singh Punjab Technical University, Bathinda	Shekhar Dwivedi	Ph.D Scholar	Dosimetric Assessment of Small Radiation Fields in 6 and 10 MV FF and FFF Photon Beams for Therapeutic Use
POS-05	Govt. Rajindra College, Bathinda	Prabhjot Singh	Faculty	U238, Th232 and K40 concentration and radon exhalation study in sub soils of Tosham region Haryana, India
POS-06	Central University of Punjab, Bathinda	Amrutha K	Ph.D Scholar	Application of Accelerator Mass Spectrometry in Geosciences: From Indian Perspective
POS-07	Guru Nanak Dev College for Girls, Sri Muktsar Sahib	Gurjot Singh	Faculty	Interdisciplinary applications of X-ray fluorescence technique
POS-08	Central University of Punjab, Bathinda	Muzahir Iqbal	Ph.D Scholar	Beam Induced Nucleation Growth of Ru in rGo Matrix
POS-09	DAV College, Bathinda	Vikas Duggal	Faculty	Age-Dependent Radiation Dose Due To Intake Of Radon In Drinking Water From Northern Haryana, India
POS-10	Guru-Kashi University	Amit Joshi	Ph.D Scholar	Fast Neutron Shielding Behaviour of Silicone Rubber Doped With Boric Acid
POS-11	Central University of Punjab, Bathinda	Haldhar Kumar	Ph.D Scholar	Enhancement of Beam Current and its Stability by Apposite Metal Matrix for 10Be AMS Measurement
POS-12	Baba Farid College, Bathinda	Sudhir Mittal	Faculty	Estimation of Annual Effective Dose Due to Indoor Radon Level

POS-14 Central University of Punjab, Bathinda POS-15 Central University of Punjab, Bathinda POS-16 Central University of Punjab, Bathinda POS-16 Central University of Punjab, Bathinda POS-17 Baba Farid College, Bathinda POS-18 Central University of Pos-18 Central Universi		Central University of	Vijay Jaswal	Ph.D	Uranium distribution in drinking
POS-14 Central University of Punjab, Bathinda Punjab, Bathinda Pos-15 Central University of Punjab, Bathinda Pos-15 Central University of Punjab, Bathinda Pos-16 Pos-16 Pos-16 Pos-16 Pos-16 Punjab, Bathinda Pos-17 Baba Farid College, Bathinda Pos-17 Central University of Pos-18 Central University of Pos-		Punjab, Bathinda		Scholar	1
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POS-17 Baba Farid College, Bathinda Bat	1 00 10		1/10111/ 1/14/44/11		
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POS-18 Central University of Punjab, Bathinda Ph.D Structural and Optical Properties of Cd-Doped Pyrochlore Bismuth Titanate		Bathinda			
Punjab, Bathinda Scholar Properties of Cd-Doped Pyrochlore Bismuth Titanate					
Pyrochlore Bismuth Titanate	POS-18	_	Anu Sharma		<u> </u>
		Punjab, Bathinda		Scholar	
I Noncompticion					
POS-19 Central University of Jaspreet Singh Ph.D Energetics and Electronic	DOS 10	Central University of	Inchreat Singh	Dh D	
Punjab, Bathinda Scholar Structure of Novel Hybrid	103-19	_	Jaspieet Singii		
Dumbbell Monolayers		Tanjao, Daumida		Scholar	
					Bumbeen Manadayers
POS-20 Baba Farid College, Harbans Lal Faculty Electrical conductivity in Thin	POS-20	Baba Farid College,	Harbans Lal	Faculty	Electrical conductivity in Thin
Bathinda Jasuja Bismuth Film deposited at			Jasuja		
Liquid Nitrogen Temperature					Liquid Nitrogen Temperature
POS-21 Baba Farid College, Sahil Gupta Faculty Security of communicating data	POS-21	_	Sahil Gupta	Faculty	
Bathinda using Video Steganography					
POS-22 Central University of Jaya Gupta MSc Effects of adding MWCNT on	POS-22	_	Jaya Gupta		
Punjab, Bathinda Student structural, morphological,		Punjab, Bathinda		Student	
optical and dielectric properties					
of two phase (LDPE)100- X(Cr2O3)X nanocomposite					1
with varying concentration					, , , , , , , , , , , , , , , , , , ,
POS-23 DAV College, Gurpreet Singh Faculty Electron Transport in Plasma	POS-23	DAV College.	Gurpreet Singh	Faculty	, ,
Bathinda Bathinda		_			F 3-1

Details of the participants

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14	Mohit Kumar	M.Sc Student	Akal University, Talwandi Sabo
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32	Manpreet Kaur	M.Sc Student	Baba Farid College, Bathinda
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36	Pragati Jain	M.Sc Student	Baba Farid College, Bathinda
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40	Rekha Rani	M.Sc Student	Baba Farid College, Bathinda
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49	Kiranjeet Kaur	M.Sc Student	Baba Farid College, Bathinda
50	Rajveer Kaur	M.Sc Student	Baba Farid College, Bathinda
51	Ranjeet Kaur	M.Sc Student	Baba Farid College, Bathinda
52	Jaspreet Kaur	M.Sc Student	Baba Farid College, Bathinda
53	Rupinder Kaur	M.Sc Student	Baba Farid College, Bathinda
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83	Ayan Roy	M.Sc Student	Central University of Punjab, Bathinda
84	Dhaarna	M.Sc Student	Central University of Punjab, Bathinda
85	Garima Soni	M.Sc Student	Central University of Punjab, Bathinda
86	Jaya Gupta	M.Sc Student	Central University of Punjab, Bathinda
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92	Pritam	Ph.D Scholar	Central University of Punjab, Bathinda
93	Priyanka Rani	M.Sc Student	Central University of Punjab, Bathinda
94	Priyanka Deswal	M.Sc Student	Central University of Punjab, Bathinda
95	Rajshree Gautum	M.Sc Student	Central University of Punjab, Bathinda
96	Rupali	M.Sc Student	Central University of Punjab, Bathinda
97	Seshadev Barik	M.Sc Student	Central University of Punjab, Bathinda
98	Shinam Bhatti	M.Sc Student	Central University of Punjab, Bathinda
99	Tavinder Singh	M.Sc Student	Central University of Punjab, Bathinda
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102	Komal	M.Sc Student	Central University of Punjab, Bathinda
103	M Rudhresh	M.Sc Student	Central University of Punjab, Bathinda
104	Manash Jyoti Mech	M.Sc Student	Central University of Punjab, Bathinda
105	Mohd Safeer	M.Sc Student	Central University of Punjab, Bathinda
106	Poonam	M.Sc Student	Central University of Punjab, Bathinda
107	Pranab Kumar Ghose	M.Sc Student	Central University of Punjab, Bathinda
108	Rajashri Parida	M.Sc Student	Central University of Punjab, Bathinda
109	Rajat Kumar	M.Sc Student	Central University of Punjab, Bathinda
110	Vashu Kamboj	M.Sc Student	Central University of Punjab, Bathinda
111	Muzahir Iqbal	Ph.D Scholar	Central University of Punjab, Bathinda
112	Debashish Goswami	M.Sc Student	Central University of Punjab, Bathinda
113	Gajanand Prajapat	M.Sc Student	Central University of Punjab, Bathinda
114	Himanshu Pant	M.Sc Student	Central University of Punjab, Bathinda
115	Kapil NayaK	M.Sc Student	Central University of Punjab, Bathinda
116	Rajeev K. Poonia	M.Sc Student	Central University of Punjab, Bathinda
117	Anil Anya	Ph.D Scholar	Central University of Punjab, Bathinda

118	Attiqullah	M.Sc Student	Central University of Punjab, Bathinda
119	Jaspreet Singh	M.Sc Student	Central University of Punjab, Bathinda
120	Muzzafar Hussain	M.Sc Student	Central University of Punjab, Bathinda
121	Dinesh K. Kumawat	M.Sc Student	Central University of Punjab, Bathinda
122	Ram Sawroop	Ph.D Scholar	Central University of Punjab, Bathinda
123	Shubham Kumar	M.Sc Student	Central University of Punjab, Bathinda
124	Naresh Kumar Verma	M.Sc Student	Central University of Punjab, Bathinda
125	Jyoti	M.Sc Student	Central University of Punjab, Bathinda
126	Babita Negi	M.Sc Student	Central University of Punjab, Bathinda
127	Shibani Choudhury	M.Sc Student	Central University of Punjab, Bathinda
128	Manish kumar	M.Sc Student	Central University of Punjab, Bathinda
129	Prashant A. Santos	M.Sc Student	Central University of Punjab, Bathinda
130	Saurav Shukla	M.Sc Student	Central University of Punjab, Bathinda
131	Touseef Ahanger	M.Sc Student	Central University of Punjab, Bathinda
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133	Gaurav Kayal	M.Sc Student	Central University of Punjab, Bathinda
134	K. M. Rohith	M.Sc Student	Central University of Punjab, Bathinda
135	Ayushi Agarwal	M.Sc Student	Central University of Punjab, Bathinda
136	Jaspreet Singh	M.Sc Student	Central University of Punjab, Bathinda
137	Amrvtha Kumar	M.Sc Student	Central University of Punjab, Bathinda
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139	Vikas Kumar	M.Sc Student	Central University of Punjab, Bathinda
140	Premchand Kisku	M.Sc Student	Central University of Punjab, Bathinda
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142	Atul K. Singh	M.Sc Student	Central University of Punjab, Bathinda
143	Prem K. Kushwaha	M.Sc Student	Central University of Punjab, Bathinda
144	Sunita Prajapati	M.Sc Student	Central University of Punjab, Bathinda
145	Sumit Kumar	M.Sc Student	Central University of Punjab, Bathinda
146	Rupam Kalita	M.Sc Student	Central University of Punjab, Bathinda
147	Romanshu Garg	M.Sc Student	Central University of Punjab, Bathinda
148	Rohit	M.Sc Student	Central University of Punjab, Bathinda
149	Waseem A. Baba	M.Sc Student	Central University of Punjab, Bathinda
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159	Summet Rani	M.Sc Student	Government Rajindra college, Bathinda
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167	Akshay Mittal	M.Sc Student	Government Rajindra college, Bathinda
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169	Manpreet	M.Sc Student	G. N. D. College for Girls, Sri Muktsar Sahib
170	Rajveer Kaur	M.Sc Student	G. N. D. College for Girls, Sri Muktsar Sahib
171	Rani Mittal	M.Sc Student	G. N. D. College for Girls, Sri Muktsar Sahib
172	Jaspiwder	M.Sc Student	G. N. D. College for Girls, Sri Muktsar Sahib
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174	Beant Kaur	Student	G. N. D. College for Girls, Sri Muktsar Sahib
175	Jyoti Arora	Student	G. N. D. College for Girls, Sri Muktsar Sahib
176	Sukhwinder Kaur	Student	G. N. D. College for Girls, Sri Muktsar Sahib
177	Manpreet Kaur	Student	G. N. D. College for Girls, Sri Muktsar Sahib
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184	Priyanka Madaan	Ph.D Scholar	Central University of Punjab, Bathinda
185	Sumandeep Juneja	Ph.D Scholar	Central University of Punjab, Bathinda
186	Sukhchain Kaur	Ph.D Scholar	Central University of Punjab, Bathinda
187	Pankaj Ror	Ph.D Scholar	Central University of Punjab, Bathinda
188	Vijay Jaswal	Ph.D Scholar	Central University of Punjab, Bathinda
189	Gini Rani	Ph.D Scholar	Central University of Punjab, Bathinda
190	Farhat Praveen	Student	Central University of Punjab, Bathinda
191	Harjinder Singh	Ph.D Scholar	Central University of Punjab, Bathinda
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193	Gurpreet Singh	M.Sc Student	D. A. V. College, Bathinda
194	Neelam	M.Sc Student	D. A. V. College, Bathinda
195	Vikas Duggal	M.Sc Student	D. A. V. College, Bathinda
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197	Ram Prashant Kumar	M.Sc Student	Central University of Punjab, Bathinda

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207	Savita Rani	M.Sc Student	Government Rajindra College, Bathinda
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216	Deeksha	Faculty	Baba Farid College, Bathinda
217	Munesh Bansal	Faculty	Baba Farid College, Bathinda
218	Sudhir Mittal	Faculty	Baba Farid College, Bathinda
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