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**(\*On lien from Tata Institute of Fundamental Research , Mumbai)**

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# *Panjab University, Chandigarh*



*Its heritage , present stature and  
nucleation of CRIKC*



# *Rich Heritage*

**Established in 1882 at Lahore (now in Pakistan) as the FIRST teaching and affiliating University in South Asia under the British Raj after the first three affiliating Universities started at Bombay, Calcutta and Madras in 1857.**

**It got subdivided as Punjab was partitioned in 1947 at the time of creation of Pakistan. The Indian part was reinitiated on October 1, 1947 it commenced getting collated at its present campus at Chandigarh in 1956**

## **An Inter-State Body-Corporate:**

**Re-constituted under an Act passed by Parliament of India (1966).**



**Gandhi Bhawan,  
PU Campus, Chandigarh**



# NEW PHASE

**Imbibing the spirit of  
missionary zeal at Chandigarh, the  
best who migrated from Lahore  
were put together along with the  
best available from elsewhere in  
India**



# *PU campus : An architectural marvel*

- **Complex designed by Pierre Jeannerette under the guidance of the legendary, Le Corbusier .**
- **Spacious, serene and tranquil to infuse one in mood of contemplation.**
- **Four museums and the department of Indian theatre with its own Theatre Lab.**
- **A Botanical Garden, A Herbal Garden, A Rose Garden & Garden of Medicinal Plants on the campus vouch its “green pastures”**
- **Sprawling Campus today spread in two Sectors with land area over 550 acres**





# *Panjab University Campus at Chandigarh*

## *A Synoptic View*

- **Faculty Strength** : **Over 1000**
- **Teaching Departments & Chairs** :~ **85**
- **Affiliated Colleges** : **> 190**
- **Regional Centres** : **4**
- **Library resources** : **Around 8 Lakh Books**
- **Students (entire PU)** : **Over 2,45,000**
- **Faculties** : **11**
- **Postgraduate Courses** : ~ **200**
- **Undergraduate Courses** : **75**
- **Students Enrolled in Campus** : **13,500**



# *Competencies of P.U.*

- **Unique Mix of Residential campus at Chandigarh as well as 192 affiliated and constituent Colleges across Punjab**
- Increasing popularity of its **professional courses** at Institutes of Engineering & Technology ( UIET, UICET etc.), Buisness Studies , Management and Legal Studies (UBS, UIAMS, UILS, UIHMT, UIIET, etc) , Dental College and Pharmaceutical Sciences Institute, etc.
- Strong presence in **Newer and Emerging Areas** like Biotechnology, Nanotechnology, Polymer Science and Engineering, Materials Science and Technology , Energy Management, Drug Delivery, Genome Studies, Defense and Gender Studies.



# *Competencies of P.U. contd...*

- Offering programs with industry recognized credentials and international orientation.
- Close coordination and collaboration with Institutes of National importance in Chandigarh tricity Metropolis, like, PGI, PEC, IMTECH, NIPER, CSIO, IISER, TBRL, BPU, IIT Ropar, etc.

**Nucleated Chandigarh Region  
Innovation and Knowledge Cluster.**







**Chandigarh Region Innovation &  
Knowledge Cluster**

[http://crikc.puchd.ac.i](http://crikc.puchd.ac.in)

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# *CRIKC : Founding institutions*

1. Panjab University
2. PGIMER - Post Graduate Institute of Medical Education & Research
3. CSIO – Central Scientific Instrumentation Organization
4. IMTECH – Institute of Microbial Technology
5. IISER – Indian Institute of Science Education & Research (Mohali)
6. NIPER – National Institute of Pharmaceutical Education & Research
7. NABI – National Agri Food Biotechnology Institute
8. TBRL – Terminal Ballistic Research Laboratory
9. ISB – Indian School of Business (Mohali)
10. PEC – Punjab Engineering College of Engineering and Technology
11. IIT ROPAR
12. National Institute of Technical Teachers' Training and Research
13. Govt. Medical College & Hospital
14. Institute of Nano Science & Nano Technology (Mohali)
15. Centre for Agro Processing (Mohali)
16. Snow and Avalanche Study Establishment (Chandigarh)

**Broadly these cover higher education and research in medical and life sciences, engineering and physical sciences. Also, there are many industrial units related to some of the research activities around Chandigarh.**



# *CRIKC and neighbourhood*

**Chandigarh has all types of institutes**

- **Educational:** PU, PEC, IISER, NIPER, ISB, NITTTR
- **Research:** CSIR : **CSIO, IMTECH**; DST: **NSNT**; DBT: **NABI, BPU**; DRDO: **TBRL**;  
Min. of Petroleum & Industry: **NIPER**
- **Medical:** PGIMER, Govt Medical College Hospital
- **Engineering:** PEC, IIT-Ropar
- **Industry:** Baddi (H.P.); CII (North) HQ at Chd.

**Further Chandigarh region is rich in intellectual resources,**

- **Over 40 Fellows of Science Academies (INSA, IASc, NASI) and over 500 active scientists and technologists**
- **CHASCON; Children Science Congress; National/International Conferences/WKSP/ Seminars**
- **Chandigarh apart from being well planned , is also well connected by Road and Air. Soon, it is going to have an International Airport**



# *CRIKC is Aiming for :*

- 1. Identifying joint and collaborative research projects.**
- 2. Attempting to initiate joint teaching/training programs including pre-PhD courses,**
- 3. Encouraging and promoting pooling of research facilities of the participating institutions.**
- 4. Nurturing scientific culture from school level.**
- 5. Promotion of spirit and philosophy of 'Meta-University' concept.**
- 6. To promote and sustain the following themes for excellence in research:**

*Biomedical Sciences, Applications of Nano-science and Nano-technology, Theoretical Studies*

- 7. Policy Planning for better comprehension of Government of India programs and societal needs**



# *CRIKC : Phase II*

- 1. Joint programs in Life Sciences and Nano-science & Technology**
- 2. Common physical infrastructural facilities to be created in new land being made available by Chandigarh Administration**
- 3. Facility of spending a few months in the participating institutions on mutual basis**
- 4. Incentive scheme enabling Ph.D. holder college teachers to take sabbatical leave to work with faculties/scientists in CRIKC institutions.**
- 5. Create/provide facilities to attract faculty members from abroad to spend sabbatical leave period in CRIKC institutions**
- 6. Strengthening of Industry-Academia interaction**
- 8. Refresher courses / summer school / college teachers**



# *CRIKC : Phase III*

- 1. Integration of Industry sponsored programs.**
- 2. Setting mission oriented goals.**
- 3. Higher level of visibility in Research.**
- 4. New incentive schemes to attract talent, in particular, Inspire Post Doctoral Fellows to choose CRIKC institutions as hosts to initiate new research programmes.**
- 5. Creating examples where one can progress from  
'Concept to Commercialization'**



# Strategy of Government of India

- Move India up the value chain: research and innovation-driven economy
- Enhance R&D activities within Institutions of Higher Learning
- Encourage the activities of Industry in Academics  
(**N R Narayanamurthy Report, 2012**)
- Universities to support indigenous Small and Medium Enterprises, including start-ups *by* fostering academia-industry collaborations



# *P U and CRIKC : A laboratory to try new national initiatives*

- Department of Science & Technology (DST) grant to create ‘Centre for Policy research’ for focusing on enhancing Industry academia interactions, promote PM Fellowship Scheme for PhD Scholars.
- Department of Biotechnology grant to start University Innovation Centre as incubation hub.
- DST-Department of Energy of USA Strategic Research Initiative to rope in Indian Universities to create High Energy Instrumentation & Detector development Centre at Chandigarh for new experiments to begin at Fermi Lab, Illinois, USA in 2022.





# *PU , CRIKC and British Council, Mumbai*

- **Support to speakers from UK to visit CRIKC institutions :**
- **Close collaboration between CRIKC and UK Deputy High Commission Office in Chandigarh. New British Council Library has opened in Chandigarh.**
- **Proposals to promote interactions between PU and its parent institutions at Lahore via British High Commission branches at Chandigarh and at Lahore and inter alia promote understanding between people from across the borders of Punjab who have settled in UK.**
- **Partnership between Nottingham Univ. & its City Council and CRIKC & Chandigarh Administration to explore numerous new initiatives of benefit to business people from India and UK.**



## *P.U.'s Strategic Twins*

- **“Internationalisation abroad”** – flows of staff and students in both directions, strategic alliances, joint R&D with overseas institutions, overseas students through USOL.
- **“Internationalisation at home”** – reform of curriculum and teaching method, Preparing students for Higher studies abroad, more recruiting by Multi-National-Corporations, improved study and social support for international students.



**Thank You**