



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

# NATIONAL CONFERENCE

on

**"Indigenous Technologies for Viksit Bharat"**

**17<sup>th</sup> CHASCON**  
**(Chandigarh Science Congress)**

**November 6-8, 2024**

**LAST DAY TO REGISTER FOR CHASCON 2024 EXTENDED TILL OCTOBER 16, 2024**  
**LAST DAY TO SUBMIT THE ABSTRACT IS OCTOBER 16, 2024**

## **Chief Patron**

**Professor Renu Vig**  
**Vice Chancellor**  
**Panjab University, Chandigarh**

**Email: [chascon2024@pu.ac.in](mailto:chascon2024@pu.ac.in)**

## **Coordinator**

**Professor Y.K. Rawal**  
**9876096196**

**Website: [chascon.puchd.ac.in](http://chascon.puchd.ac.in)**

## **Co-Coordination**

**Professor Sonal Singhal**  
**9872118810**  
**Professor Sakshi Kaushal**  
**9872236600**

## **Congress Secretariat**

**Director, Research and Development Cell**  
**Panjab University, Sector-14**  
**Chandigarh – 160014**





## ABOUT CHASCON

The 17th Chandigarh Science Congress (CHASCON) is scheduled to be held at Panjab University from November 6-8, 2024. Initiated in 2007, to provide a platform for young budding researchers from the Campus to showcase their work and nurture a culture of research at Panjab University, the Congress has over the years grown and evolved to acquire a National character and reach hosting highly acclaimed academicians and erudite researchers from all over India and even abroad. Focusing on the theme "Indigenous Technologies for Viksit Bharat" the 17th CHASCON aims to document and exhibit the contribution of research towards the building of a self-reliant India and the fruition of the "Amrit Kaal" in India's resurgence as a Global leader. Spanning a period of three days, CHASCON-2024 offers a rare opportunity for researchers from diverse backgrounds, disciplines, specialisations and age-groups to meet, debate and innovate in the interest of a resurgent and self-reliant Bharat. Organised in collaboration with the Chandigarh Region Innovation and Knowledge Cluster (CRIKC), the event will include plenary lectures, panel discussions, oral and poster presentations and exhibitions, all aimed at establishing and strengthening linkages between researchers, industry and policy makers. As always, the primary objective of the event remains to orient young minds towards research and to develop of a scientific temperament by providing them an opportunity to share their vision of a developed India and contribute towards its realisation through scientific presentations and exhibits. We welcome you all to partake of this eclectic academic feast!!



## About Chandigarh Region Innovation and Knowledge Cluster (CRIKC)

Chandigarh Region Innovation and Knowledge Cluster (CRIKC) was initiated at Panjab University in 2013, whereby Institutions in and around Chandigarh came together for the creation of a Knowledge Cluster with a mandate to use Science, Technology and Innovation for Socio-Economic development in the region. The regional impetus was expected to contribute to national and global goals in tandem with the UN SDGs (Sustainable Development Goals) and bring together stakeholders from the fields of academia, industry, civil society, and the government.

The banner of CRIKC subsumes within itself diverse institutions of higher education and research with an aim to facilitate innovation and knowledge creation and achieve excellence in all academic spheres without compromising the autonomy of the participating institution. Faculty and scientists are encouraged to carry out joint and collaborative research and to run joint teaching/training programs at all levels of education & research. This encourages pooling of research facilities of the participating institutions, promoting and sustaining excellence in research and policy planning for better comprehension of GoI programmes and catering to societal needs.

The Institutes which are part of CRIKC include Medical Institutes like PGIMER and GMCH-32, Chandigarh; Engineering Institutes like IIT (Ropar), PEC, NITTR, CCET at Chandigarh, C-DAC, Mohali; Higher Education Institutes like Panjab University, Chandigarh; IISER, NIPER, Chitkara, Rayat-Bahra University, Mohali, Desh Bhagat University, Gobindgarh and Maharaja Agarsen University, Baddi and Research and Development Institutes like CSIR-IMTECH, DRDO-SASE, DRDO-TBRL, PSCST, IDC, CRRID, Chandigarh and DBT-CIAB, DBT-NABI, DST-INST, SCL in Mohali.

CRIKC domains which have left a noteworthy impact on the society and scientific community include: "CRIKC Ignited Minds" being run at various government schools to inculcate scientific temper among school students and science teachers; and "CRIKC Shodh Samwad" being organized at various institutes for fostering collaboration amongst PhD scholars and providing them leadership opportunities. Under the vertical of Industry-Academia collaboration and innovation an Advance Drone Tech Centre has been established at Panjab University campus.







## About Panjab University



Established at Lahore in the year 1882, Panjab University was one of the first four Universities to be established in India. It was also the first University to be established through public funding in the form of grants and contribution from several people belonging to the region. Following the turmoil of partition and a series of displacement, Panjab University found its new home in Chandigarh in the year 1958-59. Here it served as one of the two major foci of the city's development and continued the established tradition of pursuing teaching and research in science and technology, humanities, social sciences, performing arts and sports. Today it features among the premier Institutions of Higher Education in the country and has not only maintained established traditions and standards but has rather emerged as an institution taking major strides towards innovative teaching, research and community outreach.

With the Hon'ble Vice President of India, Shri Jagdeep Dhankhar as the Chancellor and Professor Renu Vig as the Vice Chancellor, Panjab University has a legacy to be proud of. It has contributed illustrious alumni in all walks of life. It has been the alma mater of ex-President of India, Dr Shankar Dayal Sharma, former Prime Ministers Shri I K Gujral and Dr Manmohan Singh and a large number of Nobel laureates, scientists, sports-persons, renowned public figures, notable bureaucrats and theatre personalities who have contributed immensely to the cause of the nation building. Panjab University Campus at Chandigarh has seventy-three teaching and research departments/institutes/centres besides four independent Chairs for research. Furthermore, the University has 189 affiliated/constituent colleges, spread over Punjab and Chandigarh besides Regional Centres at Muktsar, Ludhiana, Hoshiarpur and Kauni.

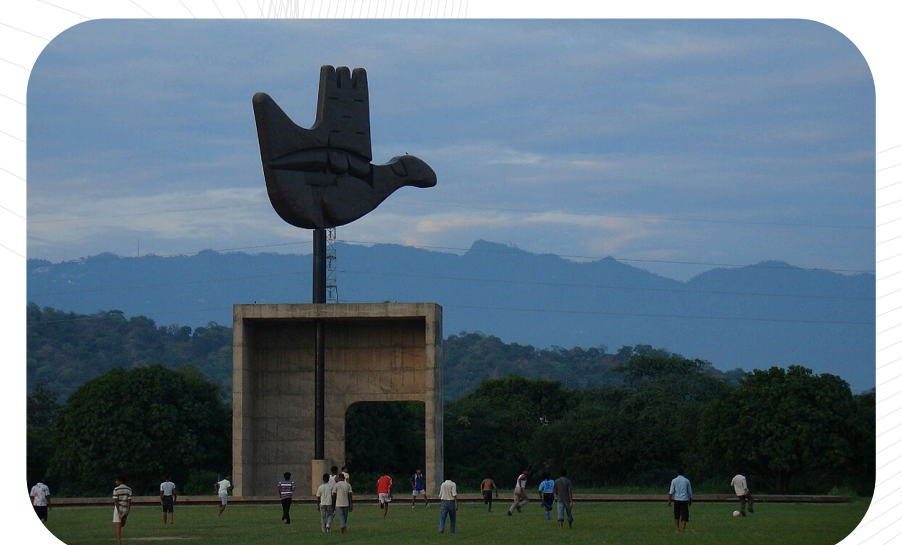
The University is an active partner in various prestigious International High Energy Research Programmes at Fermilab (USA), KEK (Japan) and CERN (Switzerland). It has MoUs with University of Nottingham (UK), University of Birmingham (UK), Nottingham Trent University (UK) and University of Western Sydney (Australia) and collaborations with National Science Technology and Development Agency, Thailand; University of Missouri, USA and Universidade de Aveiro, Portugal; International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad; International Centre for Agricultural Research in Dry Areas (ICARDA), Morocco; World Vegetable Research Centre, Taiwan and Baylor Medical centre, Dallas, U.S.A. The University also has collaborations with a number of national institutes like IARI, Delhi; GB Pant University of Agriculture and Technology, Pantnagar; HFRI, Shimla; IIT, Roorkee; PGIMER, Chandigarh; IMTECH, Chandigarh; CSIO, Chandigarh and many others. In addition, the University has established Pre-Incubation Centres and Skill Development Centres under the Rashtriya Uchchar Shiksha Abhiyan of the Government of India to give impetus to research and innovation. BioNEST-PU was launched by BIRAC with a vision that focused on fostering the Biotech Innovation Ecosystem and nurture young entrepreneurs in the northern region of the country. DST-funded Tech Enabling Centre was established at Panjab University with the aim to provide technological solutions for needs of society and industry. University DST-Centre for Policy Research has the mandate to prepare guidelines for strengthening Industry-Academia Collaborations under Public Private Partnership mode. Recently the University has been awarded the Northern Region Science and Technology Cluster in association with IIT Ropar by the office of the PSA, PMO. In recognition of its many distinction the University was awarded a A++ grade with a score of 3.68 by the National Assessment and Accreditation Council in the year 2023

## About Chandigarh

Chandigarh, the dream city of India's first Prime Minister, Sh. Jawahar Lal Nehru, was planned by the famous French Architect, Le Corbusier. Picturesquely located at the foothills of Shivaliks, it is known as one of the best experiments in urban planning and modern architecture in the twentieth century in India. Envisaged as a replacement for Lahore the erstwhile capital of Punjab, the Capital Project was initiated in 1948, by the Government of Punjab, in consultation with the Government of India. The foundation stone of the city was laid in 1952. After the reorganization of Panjab in 1966, the city was declared a Union Territory, however it continues to be the capital city of both, Punjab and Haryana.

The concept of the city is based on four major functions: living, working, care of the body and spirit and circulation. Residential sectors constitute the living part whereas the Capitol Complex, City Centre, Educational Zone (Post Graduate Institute of Medical education and Research, Punjab Engineering College, Panjab University) and the Industrial Area constitute the working part. The Leisure Valley, Gardens, Sector Greens and Open Courtyards etc. are for the care of body and spirit. The circulation system comprises of 7 different types of roads known as 7Vs. Later on, a pathway for cyclists called V8 was added to this circulation system.

Popular tourist spots in Chandigarh include Leisure Valley spread over 8 km, including many parks like Rose Garden, Bouganvilla Garden, Topiary Park and more. Rock Garden one of the major icons of the city showcases a mosaic of colourful art pieces made using materials collected from demolished sites. Sukhna Lake is another iconic place worth visiting. One can enjoy its pristine beauty, go boating on the paddle boats and shikaras, go for camel ride, get a portrait made, ride a mechanical bull and not to miss a trip to bird park, Shimla and Kasauli hill stations are very nearby.







**Chief Patron**  
**Professor Renu Vig**  
Vice Chancellor, Panjab University, Chandigarh

## Patrons

**Professor R C Sobti**

Former Vice Chancellor, Panjab University, Chandigarh and BBAU, Lucknow

**Professor Arun Grover**

Former Vice Chancellor Panjab University, Chandigarh

**Professor Vivek Lal**

Director, PGIMER, Chandigarh

**Professor Rajesh Kumar Bhatia**

Director (Interim), PEC, Chandigarh

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**Professor Dulal Panda**

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Director, IIT Ropar, Ropar

**Professor Shantanu Bhattacharya**

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**Professor Chandan Chowdhury**

Executive Director, ISB, S.A.S. Nagar, Punjab

**Professor Ashwani Pareek**

Executive Director & CEO, NABI and CIAB, S.A.S. Nagar, Punjab

**Professor Bhola Ram Gurjar**

Director, NITTTT, Chandigarh

**Dr. Parteek Kishore**

Director, TBRL, Chandigarh

**Dr. Pramod K Satyawali**

Director, DTRL and DGRE, Chandigarh

**Sh. Kamal Kishor Yadav**

Vice Chancellor, Punjabi University, Patiala

**Dr. Bindu Duggal**

Director (Acting), CRRID, Chandigarh

**Dr. AK Attri**

Director-Principal, GMCH, Chandigarh

**Dr. Manpreet Singh**

Principal, CCET, Chandigarh

**Er. Pritpal Singh**

Executive Director, PSCST, Chandigarh

**Vijay Kumar Sharma**

Director, C-DAC, S.A.S. Nagar, Punjab

**Dr. Om Prakash Chaurasia**

Director, DIHAR, Chandigarh

**Shri Surinder Singh**

Director, SCL, S.A.S. Nagar, Punjab

**Dr. Pramod Kumar**

Chairperson, IDC, Chandigarh

**Dr. Parvinder Singh**

Vice Chancellor

Rayat Bahra University, S.A.S. Nagar

**Dr. Archana Mantri**

Vice Chancellor

Chitkara University, S.A.S. Nagar

**Professor R.K Gupta**

Vice Chancellor Maharaja Agrasen University, Solan

**Shri Ashwani Garg**

Chairman SVIET, S.A.S. Nagar

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Director NIELIT, Ropar

**Professor Abhijit H Joshi**

Vice Chancellor, Desh Bhagat University, Mandi Gobindgarh





## Advisory Committee

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Dean of University Instruction

**Professor Harsh Nayyar**

Director, Research and Development Cell

**Professor Rajat Sandhir**

Faculty of Sciences

**Professor Ashish Jain**

Faculty of Medical Sciences

**Professor Sanjay Kaushik**

Faculty of Business and Management Sciences

**Professor Meenakshi Goyal**

Faculty of Engineering and Technology

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Faculty of Pharmaceutical Sciences

**Professor Jagtej Kaur Grewal**

Faculty of Design and Fine Arts

**Professor Neena Capalash**

Coordinator-CHASCON 2023

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Registrar

**CA Vikram Nayyar**

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**Professor Amit Chauhan**

Dean Student Welfare

**Professor Simrit Kahlon**

Dean Student Welfare (W)

**Professor Naresh Kumar**

Associate Dean Student Welfare

**Professor Namita Gupta**

Director, Public Relations

## Organising Committee

**Professor Sukhbir Kaur**

Fellow, Panjab University, Chandigarh

**Professor Anil Kumar**

Chairperson, UIPS

**Professor Anu Gupta**

Director, Dr. A.P.J. Abdul Kalam Computer Centre

**Professor Anupama Sharma**

Chairperson, UICET

**Professor Deepak Kumar Gupta**

Principal, HSJIDS

**Professor Ganga Ram Chaudhary**

Director, CIL/SAIF

**Professor Gaurav Verma**

Coordinator, CRIKC

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**Professor Indu Pal Kaur**

Coordinator, DPIIT-IPR Chair

**Professor Kashmir Singh**

Coordinator, DST-CPR

**Professor Manu Sharma**

Coordinator, TEC

**Professor Rohit Sharma**

Project Leader, BioNEST

**Professor Sanjeev Puri**

Director, UIET

**Professor Y. K. Rawal**

Coordinator CHASCON-2024

**Professor Sonal Singhal**

Co-coordinator CHASCON-2024

**Professor Sakshi Kaushal**

Co-coordinator CHASCON-2024





## TENTATIVE SCHEDULE

**DAY 1, NOVEMBER 06, 2024 (WEDNESDAY) Venue: Law Auditorium, Panjab University, Chandigarh**

08.30 am – 09.30 am

09.30 am - 10.15 am

10.15 am – 11.00 am

11.00 am - 11.30 am

11.30 am – 01.00 pm

1.00 pm – 2.00 pm

11.00am -- 05.00 pm

Registration

Inauguration of CHASCON-2024

Keynote Address

High Tea

Scientific Session-1

Lunch Break & Networking

Expo-CHASCON-2024

**Venue: Mulk Raj Anand Auditorium Arts Block-I**

2.00 pm – 3.30 pm

3.30 pm – 4.00 pm

4.00 pm – 5.00 pm

Scientific Session-II

Tea Break & Networking

Popular Lecture

**DAY 2, NOVEMBER 7, 2024 (THURSDAY) Venue: Respective Departments for session activities (details would be notified later)**

09.30 am – 10.30 am

10.30 am – 11.00

11.00 am – 1.00 pm

1.00 pm – 2.00 pm

2.00 pm – 3.30 pm

3.30 pm – 4.00 pm

4.00 pm – 5.00 pm

Scientific Session

Tea Break & Networking

Oral Presentations

Lunch Break & Networking

Poster Presentations

Tea Break & Networking

Poster Presentations

**DAY 3, NOVEMBER 8, 2024 (FRIDAY) Venue: Law Auditorium**

09.30 am – 10.30 am

10.30 am – 11.00 am

11.00 am – 12.30 pm

12.30 pm – 1.00 pm

1.00 pm – 2.00 pm

Scientific Session-III - CHASCON-CRIKC  
SHODH SAMWAD

Tea Break & Networking

Scientific Session-IV

Valedictory Function

Lunch





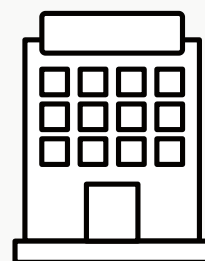
## REGISTRATION FEE & DETAILS

REGISTRATION FEE OVERVIEW	
UG/PG Students of Panjab University Campus and Regional Centres	Rs. 800.00
UG/PG Students from Colleges and Other Institutions	Rs. 944.00 (Including 18% GST)
Research Scholars of Panjab University Campus and Regional Centres (JRFs, SRFs, Project Fellows and Post Docs)	Rs. 1,500.00
Research Scholars from Colleges and other Institutions (JRFs, SRFs, Project Fellows and Post Docs)	Rs. 1,770.00 (Including 18% GST)
Faculty/Scientists of Panjab University Campus and Regional Centres	Rs. 2,000.00
Faculty/Scientists from Colleges and Other Institutions	Rs. 2,360.00 (Including 18% GST)
Person from Industry	Rs. 5,900.00 (Including 18% GST)

## STEPS FOR REGISTRATION

- Fill Online Registration Form on <https://chascon.puchd.ac.in/>
- registration Validate link in received email.
- Login info sent to registered email.
- Login, complete form.
- Confirm details (no changes allowed).
- Pay Registration Fee after confirmation.
- Download receipt, PDF form from account.
- Submit Abstract

## ACCOMMODATION



SHARED ACCOMMODATION AT UNIVERSITY GUEST HOUSE SUBJECT  
TO AVAILABILITY @ RS. 500/DAY/PERSON

**FOR QUERIES RELATED TO REGISTRATION AND ACCOMMODATION CONTACT :**

Dr. Vijay Kumar : 9872663860

Dr. Ravinder Kumar : 9876086373





## SCIENTIFIC SESSIONS

SESSIONS	DEPARTMENTS
BASIC MEDICAL SCIENCES	Biochemistry, Biophysics, Biotechnology, Microbiology, Microbial Biotechnology, Stem Cell & Tissue Engineering, Human Genome Studies and Research, Systems Biology & Bioinformatics, Nuclear Medicine, Public Health
CHEMICAL SCIENCES	Chemistry
DENTAL SCIENCES	Dr. Harvansh Singh Judge Institute of Dental Sciences & Hospital
EARTH AND ENVIRONMENTAL SCIENCES	Geology, Geography, Environment Studies
ENGINEERING AND MANAGEMENT SCIENCES	University Institute of Engineering & Technology (UIET) University Institute of Chemical Engineering and Technology (UICET), Sophisticated Analytical Instrumentation Facility (SAIF), University Institute of Applied Management Sciences (UIAMS), University Business School (UBS), University Institute of Hotel & Tourism Management (UIHTM), University Institute of Fashion Technology & Vocational Development (UIFT)
LIFE SCIENCES	Botany, Zoology, Anthropology, Forensic Science and Criminology
MATHEMATICAL SCIENCES	Mathematics, Statistics, Computer Science and Applications
PHARMACEUTICAL SCIENCES	University Institute of Pharmaceutical Sciences
PHYSICAL SCIENCES	Physics Nanoscience & Nanotechnology, Medical Physics





## PRESENTATION GUIDELINES

### ABSTRACT

- Online abstract submission after registration & payment.
- Specify preferred scientific session during registration.
- Same format for oral/poster abstracts.
- Selected abstracts to be invited for presentation.
- Properly formatted poster will be accepted for poster session.
- Abstract Format: Title in sentence case (except scientific name), author names with affiliations, 250-word main text limit.

### Sample:

**Human genomic variations and personalized medicine**

Nain Singh Dhiman<sup>1</sup>, Varinder Saini<sup>2</sup> and Vijay Kumar<sup>1</sup>

<sup>1</sup>Department of Zoology, Panjab University, Chandigarh Department of Pulmonary Medicine,

<sup>2</sup>Government Medical College and Hospital, Sector-32, Chandigarh

### POSTER PRESENTATION

- Use single portrait sheet for poster.
- Size: Max 90cm (W) x 120cm (H).
- Top for title, authors from abstract.
- Content: Intro, Methodology, Results, Conclusion.
- Text, pics bold for 2m readability.
- Materials for mounting will be provided.

### ORAL PRESENTATION

- Oral Slot: 7 mins(5 mins presentation, 2 mins discussion).
- Max 15 slides.
- Cover: Problem, Methods, Results, Conclusion
- Top Oral & Poster will be awarded at closing session



**BEST PRESENTATIONS  
WILL BE AWARDED AT THE  
VALEDICTORY FUNCTION**

**DEADLINE**

**FOR ABSTRACT SUBMISSION :  
OCTOBER 16, 2024**





## CHASCON-CRIKC SHODH SAMWAD COMPETITION

SHOWCASE THE 'STORYTELLER' SIDE OF YOU



*Young scientists, Research Scholars and Post Docs. are invited to present a story of their research, which may be at any of the stages including validated proof of concept / incubated / developed / transformed into prototype / product / project with potential outcome for public welfare*

### **My Story of Science to Society - popularize your science and win an award**

- The research presented in story should have validated proof of concept.
- The story should include a title, an introduction to the idea, the methodology involved, and how this translational research is beneficial to society in general.
- Entries should mention the presenter's name, affiliation and due acknowledgement of the involved research groups.
- The story should be described within 300-500 words. Optionally including the images describing the work.
- Submit your story as single PDF at [shodhsamvad2024@pu.ac.in](mailto:shodhsamvad2024@pu.ac.in)
- Last date for submission is October 16, 2024 (Wednesday).
- 5 selected entries will make oral presentations for 10 minutes during scientific session on 7th November, 2024
- These entries shall be broadcast on Panjab University Radio Station - Jyotirgamaya: 91.2 MHz to spread the message and publicize the research groups and their work.
- Two best entries will be awarded cash prizes during the valedictory session.



**BEST ENTRY WINS CASH PRIZE**



**TOP FIVE STORIES TO BE BROADCAST ON PANJAB UNIVERSITY RADIO STATION  
JYOTIRGAMAYA - 91.2 MH**



**STALLS & SPONSORSHIP**

**Register for Exhibition Stall/Sponsorship**

**Showcase your achievements, latest equipment, new products and services essential for scientific pursuits**

**SPONSORSHIP DETAILS****Platinum**

**Rs. 75,000 + 18% GST Logo on banner ,Talk time, Stall space, 1-page ad in souvenir, Registration for 2 persons**

**Gold**

**Rs. 60,000 + 18% GST Logo on banner, Stall space,1-page ad in souvenir, Registration for 1 person**

**Silver**

**Rs. 40,000 + 18% GST Logo on banner, Stall space, Half-page ad in souvenir**

**PAYMENT DETAILS**

**Account Name : CHASCON2024**

**Account Number : 43289866651**

**IFSC : SBIN0000742**

**Bank : State Bank of India,  
Panjab University Sector-14, Chandigarh**

**EXHIBITION STALLS CHARGES\***

**INDUSTRY: RS. 30,000/-**

**CRIC AND OTHER INSTITUTIONS: RS.20,000/-**

**PANJAB UNIVERSITY DEPARTMENTS: RS. 5,000/-**

**\*GST @18% EXTRA FOR NON PANJAB UNIVERSITY PARTICIPANTS**