

# ਪੰਜਾਬ ਖੇਤੀਬਾੜੀ ਯੂਨੀਵਰਸਿਟੀ PUNJAB AGRICULTURAL UNIVERSITY



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NEP SAARTHI at PAU

ਖੇਤੀ ਸੰਦੇਸ਼

ਸਕਿੱਲ ਡਿਵੈਲਪਮੈਂਟ ਸੈਂਟਰ







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International Students' Cell

Students' Mental Health & Well-Being Committee

Students Grievances Redressal Committee

Budget Estimates for the Financial Year 2023-24

Compendium

Farmer - A Resilience Resource / ਕਿਸਾਨ - ਇਕ ਪ੍ਰੇਰਣਾ - ਜੁਝਦੇ ਰਹਿਣ ਦੀ

e-Grade Sheet PG

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Libre Office

**PAU Faculty Directory** 

Monsanto's Beachell-Borlaug International Scholars Program

Placement Brochure MBA and MBA (AB)

Protocol for evaluation of Chemicals/ Brands and Varieties/Hybrids

Old Question Papers of Written test for recruitment to the post of Clerk

Request Form For Membership of E-mail Id on PAU Mail Server (For Faculty/Staff)

Request Form For Membership of E-mail Id on PAU Mail Server (For Student)

Request Form For Membership of Remote Access Identification (For Faculty/Staff)

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Request Form For Membership of Internet/Wi-Fi Access Identification (For Student)

Student's Profile Sheet

Proformas related to issue of Medical Identity Card/Identity Cards

Pension Papers after Retirement

Documents for Family Pension after the death of Pensioner

Certificate Regarding payment of Travel Concession

# ਪੰਜਾਬ ਖੇਤੀਬਾੜੀ ਯੂਨੀਵਰਸਿਟੀ AB AGRICULTURAL UNIVERSITY



63rd Year of Education & Service

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### Home / About PAU / History

- Established in 1962 to serve the state of erstwhile Punjab
- Inaugurated by Pt. Jawahar Lal Nehru, Prime Minister of India on July 8, 1963
- In February 1970, Haryana Agricultural University carved out by an Act of Parliament
- In July 1970, HP Krishi Vishvavidalya established at Palampur campus
- · In 2006, the College of Veterinary Sciences upgraded as Guru Angad Dev Veterinary and Anima
- Modelled on the pattern of land grant colleges in US
- Has played a key role in increasing food production in Punjab state and ushering in an era of G
- Has made notable contributions in increasing livestock and poultry production in the state
- In 1995, was adjudged as Best Agricultural University in India



PT. JAWAHAR LAL NEHRU, FORMALLY INAUGURATING THE UNIVERSITY ON 8TH JULY, 1963 A
KAIRON, THE THEN CHIEF MINISTER OF PUNJAB

# ਪੰਜਾਬ ਖੇਤੀਬਾੜੀ ਯੂਨੀਵਰਸਿਟੀ 3 AGRICULTURAL UNIVERSITY

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Soil & Water Testing Report

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- The spectacular improvement in productivity of food grains has led to an increase in food production from 3.2 million tonnes in 1960-61 to 26.8 million tonnes in 2014-15. It led to considerable enhancement of farmers' income in the state.
- The state-of-art research by the university scientists in apiculture and mushrooms led to spectacular increase in their production. The state presently produces 13.9% of total honey and 50% of total mushroom production in the country.
- The PAU has been responsible for large-scale reclamation of saline and sodic soils (6 lakh ha) in the state, thereby rendering these fit for crop production.
- Providing quality seed to the farmers for higher production has been an important component of PAU producing about 69,000 quintals of improved seed during 2015-16, apart from producing 3.18 lakh seedlings of fruit plants and 1.65 lakh seedlings of forest trees.
- The high quality education at PAU has resulted in recognition of its alumni at national and international levels as Director General of ICAR, CSIR, ICFRE; Member NITI Ayog; Chairman, ASRB; Chairman CACP (GOI); DDG, ICAR; Vice Chancellors; Agricultural/Horticultural Commissioners (GOI); ADG/Directors of ICAR institutes; National Professors; DDG/Director, International Organizations; Union Minister, Govt of Kenya, etc.
- The recommendations related to judicious and efficient use of fertilizers and pesticides in different crops has resulted in huge financial savings of the state and farmers. The integrated pest management (IPM) for cotton (1978), sugarcane (1995), and maize (2008) are some of the examples.
- The short and long-term trainings to the farmers/peasants of the state by the university has led to setting up of agro-based entrepreneurships in the state, thereby supplementing their income.

# ਪੰਜਾਬ ਖੇਤੀਬਾੜੀ ਯੂਨੀਵਰਸਿਟੀ B AGRICULTURAL UNIVERSITY

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### Home / The Vice Chancellor



Name : Dr. Satbir Singh Gosal

Vice Chancellor

Punjab Agricultural University, Ludhiana -141004, India

Phone: 91-161-2401794(0), 2401795(R)

E-Mail : vc@pau.edu

### **Brief Introduction**

Born on October 1, 1954 in village Ratwara, Mohali, (parental village Majatri, Distt. Mohali), Punjab, Dr. Satbir Singh Gosal is an internationally acclaimed agricultural biotechnologist and recipient of prestigious Fellowships by The Royal Society London and The Rockefeller Foundation (USA) for his Post Doctoral research at the University of Nottingham, and John Innes Centre Norwich, England. Dr Gosal has served Punjab Agricultural University in various capacities such as Professor of Biotechnology, Head Department of Biotechnology, Founder Director School of Agricultural Biotechnology, Additional Director Research (Agri.), Director of Research and Member Board of Management. He has also served as Consultant, FAO/IAEA, Vienna, Austria and undertook expert mission to Iraq. Dr Gosal has rigorous training on 'Biosafety of GM crops' from Dan Forth Centre for Plant Science Research, St. Louis; APHIS, EPA (USDA), USTDA, Washington DC, USA. He has been an active member of Review Committee on Genetic Manipulation (RCGM) for 3 years at DBT, Government of India, New Delhi. He is a member of panel of experts in area of Biotechnology for National Fund for Strategic Research of ICAR, New Delhi and Reviewer for the R&D Project Proposals of Ministry of AYUSH, Government of India, New Delhi. He has been an honorary member, Board of Assessors, Australian Research Council, Canberra and President Punjab Academy of Sciences. He is an elected member (Fellow) of Plant Tissue Culture Association (INDIA), Fellow of Indian Society of Genetics and Plant Breeding, Fellow of Punjab Academy of Sciences. Dr Gosal is a recipient of distinction award by Society for the Promotion of Plant Science Research, Jaipur. He is also a recipient of 'Lifetime Achievement Award' from Punjab Academy of Sciences. He obtained and executed more than 20 externally funded Research Projects granted by various national and international organizations such as State Government, ICAR, DBT, DAC NATP, FAO/IAEA, and The Rockefeller Foundation, USA. He has participated and presented his research findings at 130 national/international conferences/meetings held in India, England, Scotland, Yugoslavia, Philippines, Indonesia, Thailand, The Netherlands, Malaysia, Singapore, Austria, Iraq, China, Australia, Mexico, Germany and USA. He has an excellent published record with research papers in refereed journals- 207, Innovation publications- 3, Papers in conference proceedings-135, Abstracts- 300, T.V./Radio talks- 9, Popular articles- 20, Book chapters- 37, Research reports- 22, Laboratory manuals- 5, and Books- 11 (10 Published +1 in pipeline) of which 8 are from Springer, Switzerland. He is a prolific teacher and has guided more than 75 M.Sc. & Ph.D. students.

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EMNL Brochure - Click here to view details

**EMN Request Form** 

Service Charges for Sample Analysis EMNL

Electron Microscopy & Nanoscience Laboratory (EMNL) was established in 2005 at the Punjab Agricultural University, Ludhiana. This is a state-of-art laboratory housing ultramodern electron microscopes furnished with all accessories and atomic force microscope to boost novel research in disciplines of nanoscience and nanotechnology with core emphasis on benefits that could be imparted to strengthen the crop production and productivity in Indian agriculture. It is a central facility in PAU catering the needs of frontline research in high resolution imaging, electron microscopy and nanoscopic examination of cells or cell surfaces. More than 200 masters' and doctoral candidates from PAU, and 120 from other institutes have utilized these facilities. The Lab has been offering academic courses to students. It has organized several training programs to transcend the awareness and proper scientific methodology to the students, researchers, scientists and fellow fraternity pertaining to nanoscience and nanotechnology. The Lab has been outsourced by researchers, scholars and students from universities, institutions and industry across the nation and the world.

#### Present research focus

- · Development of micronutrient nanofertilizer
- · Synthesis and characterization of nanomaterial based biodegradable cling films
- · Nanomaterials for decontamination of ground water

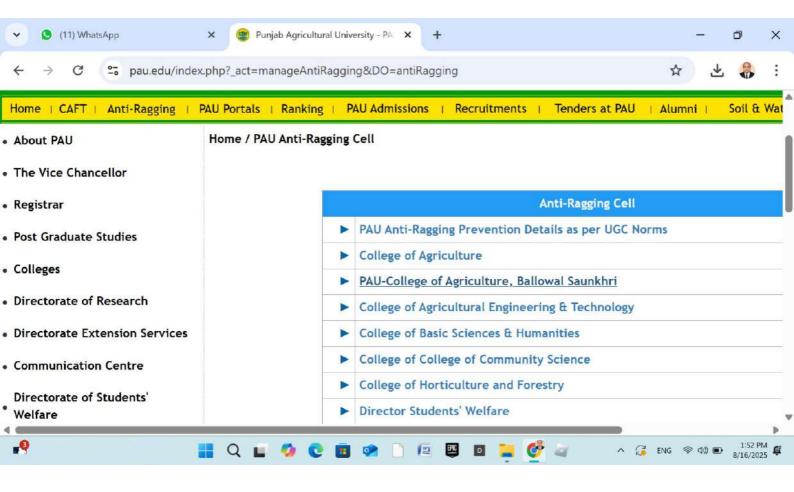
### The EMN laboratory has following facilities available

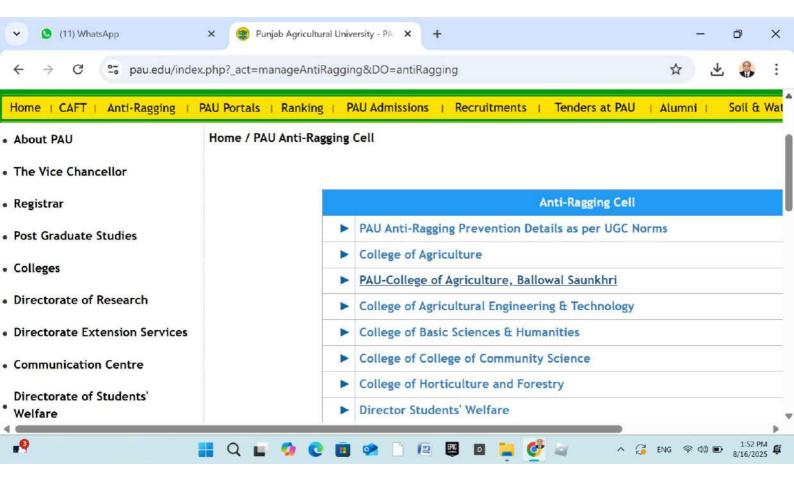
- Scanning Electron Microscope (Hitachi S-3400N) with EDS (Thermo Noran System SIX)
- Transmission Electron Microscope in both HC and HR modes (Hitachi H-7650)
- Scanning Tunneling and Atomic Force Microscope (STM/AFM) operating in air (Veeco di CP-II Scanning Probe Microscope)
- Leica Ultracut Microtome model UC6
- · Leica EM Cryo Chamber FC6 model
- · Ion Sputter Coater (Hitachi model E-1010) with gold and carbon coating units
- · Bench Top Evaporator (Polaron E6500 MHVE)
- Critical Point Dryer (Polaron E3000 CPD)
- Optical Upright Research Microscope: Leica DM5000 B
- · Stereo Zoom Microscope: Leica MZ16 A
- Stereo Zoom Microscope: Leica MZ16 A with LED illumination
- · Fluorescence Microscope: Leica DM 5000 B
- · Macro Viewer: Kaiser with Leica Imaging tools.
- FTIR NXRFT Raman Spectroscope: Thermo Nicolet 6700
- \* EMN Laboratory is now under the control of Director of Research.

### Faculty of Electron Microscopy and Nanoscience Laboratory, PAU Ludhiana

S. No.	Name & Designation	Telephone/E-Mail
1.	Dr (Mrs) Anjali Sidhu Nanotechnologist (Chemistry)	anjalisidhu@pau.edu 8360803103
2.	Dr Anu Kalia Assistant Professor (Nanoscience)	kaliaanu@pau.edu +91-9914620240
3.	Dr Gurkirat Kaur Assistant Professor (Nanotechnology)	gurkirat@pau.edu 91-9501134768
4.	Dr Kiran Jeet Scientist (Nanotechnology)	kiranjeet@pau.edu +91-9915066549
5.	Dr Mehra Singh Sidhu Assistant Professor (Nanotechnology, Physics)	sidhums@pau.edu +91-9779557712
6.	Dr Nitish Dhingra Assistant Professor (Nanotechnology, Physics)	nitishdhingra@pau.edu +91-9417815830







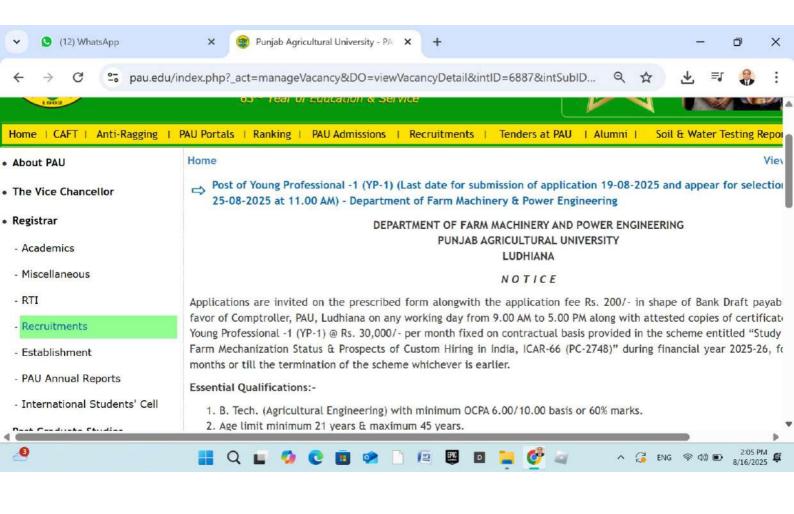


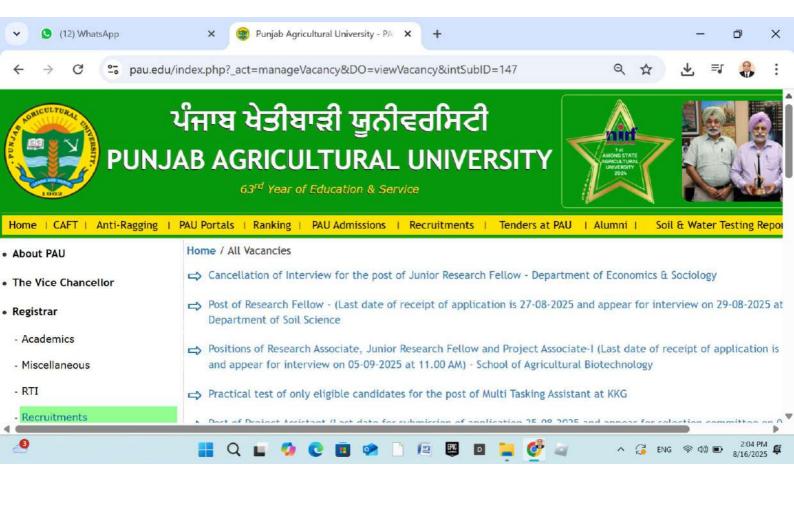
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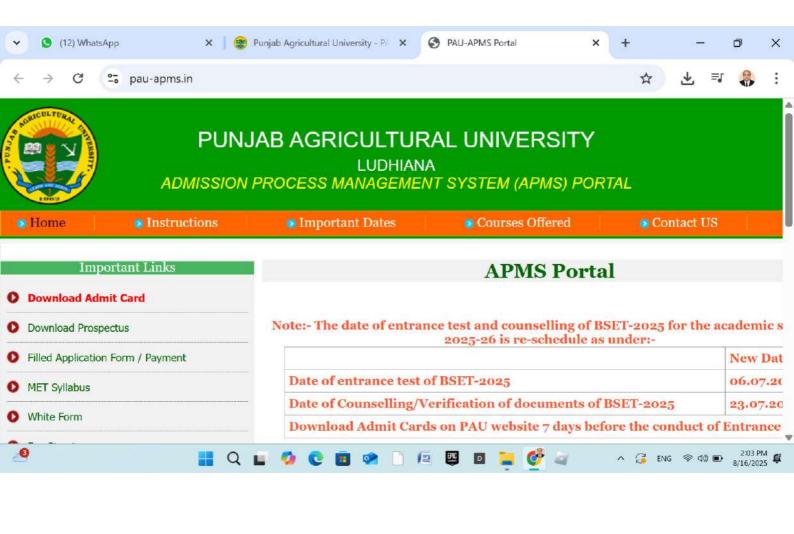
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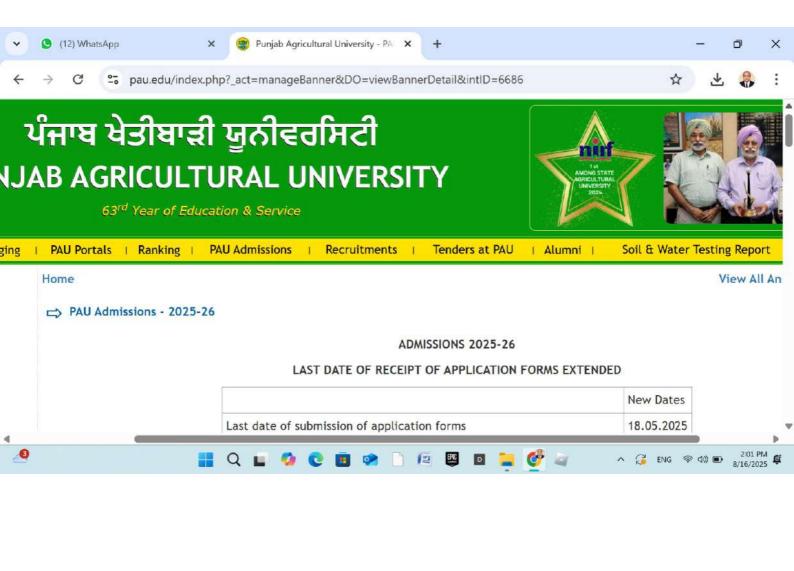
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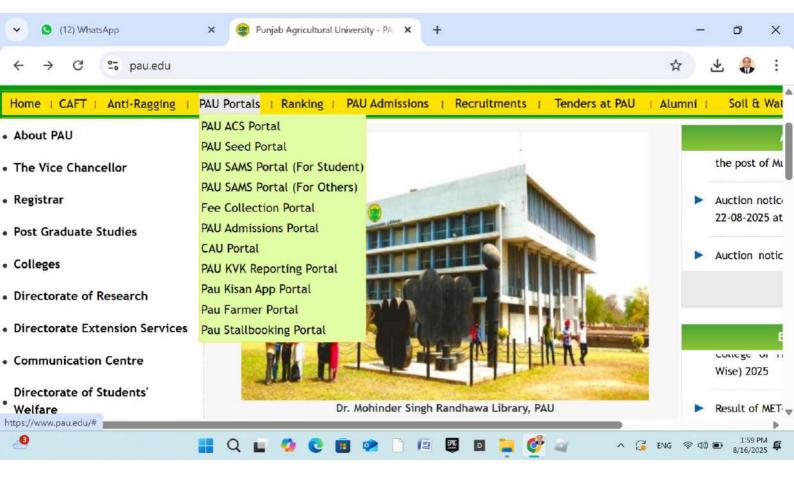


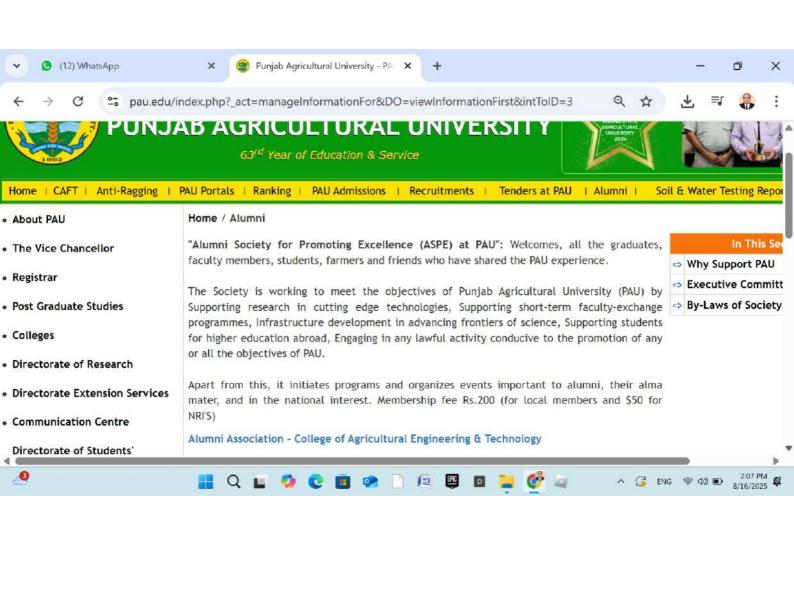


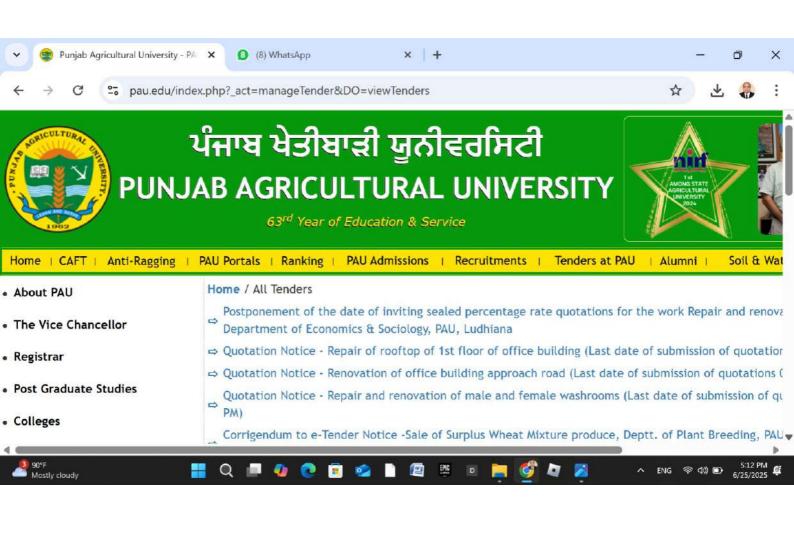


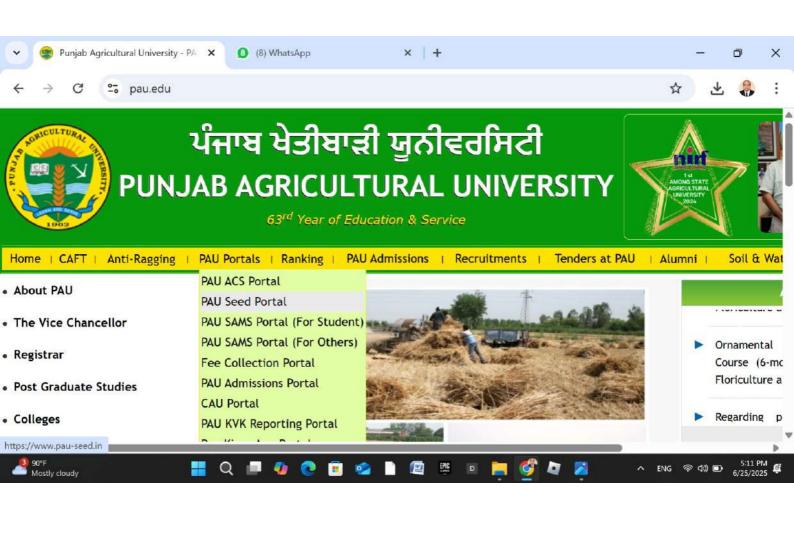




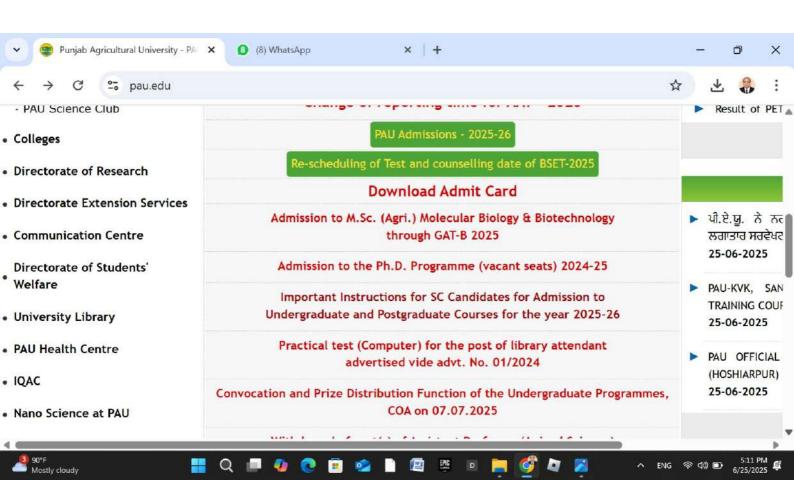














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Registrar

Post Graduate Studies

- PGS

Thesis & Synopsis Guidelines
 Resident Instruction Bulletin
 (RIB)

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The Postgraduate Studies (PGS) in the Punjab Agricultural University (PAU) are headed by a Dean of Postgraduate Studies who is the Nodal Officer for the Postgraduate studies and is responsible for the administration of all the resident teaching programmes at the Postgraduate level in the University and for the development, evaluation and improvement of curricula and designing of the teaching methods to develop in the students professional competence, character and quality of leadership. The Dean PGS is responsible for the organisation and conduct of postgraduate teaching in all the constituent colleges of the PAU. The Dean in collaboration with the Director of Research, coordinates research of the postgraduate students in integration with the general research programme of the University. The Dean PGS presides over the meetings of the Postgraduate Committee. He is member of the Advisory Committee for Resident Instruction, Research Advisory Committee and Extension Education Advisory Committee. The Dean PGS provides, in consultation with the Heads of

































