

Orientation Handbook



NHEP



COLLEGE OF DAIRY SCIENCE AND TECHNOLOGY
Guru Angad Dev Veterinary and Animal Sciences University
Ludhiana- 141004

Welcome Message



Dear Students,

I welcome you on being part of the GADVASU family and congratulate you for choosing professional career in the expanding field of Dairy technology.

Food processing is a ‘*Sunrise sector*’ with immense growth potential and employment opportunities. Milk is one of the major component of food processing sector. India is the world leader in milk production. The sector demand is increasing at more than ten percent per annum, so there is immense scope for employment opportunities for Dairy Technology graduates.

The College of Dairy Science & Technology has state-of-art teaching and research facilities. Well trained and qualified teachers with broad exposure of working at leading laboratories are a hallmark of quality education in this college.

University life is considered as one of the best for acquiring the knowledge, sharpening the skills, imbibing and nurturing the innovative ideas. Now when you have become the part of this institute, you are motivated to take full advantages of the various facilities available in the college and at university level for better career planning and overall development. I can assure you that during your stay in university you will receive one of the best academic environment and mentorship to enrich your knowledge.

This ‘Orientation Handbook’ is designed to help and support newly admitted students in securing general information about the curriculum, university and campus life. I hope you will find it useful.

I wish you all the best!

Dr. Inderjeet Singh
Vice Chancellor
GADVASU, Ludhiana

Message from Dean



Dear Students,

At the outset, let me welcome you and congratulate you for getting selected to be the part of College of Dairy Science & Technology, Ludhiana. Punjab is a leading dairy state with annual milk production of 12.06 MT and contributes to 6.70 percent to the national milk pool. On account of growing dairy sector in the state, there is high demand of trained manpower to serve the flourishing dairy industry.

The College of Dairy Science & Technology, Ludhiana is bestowed with all requisite facilities including excellent faculty to churn out of you a best dairy professional, with your dedicated commitments and passion for excellence. The physical infrastructure in the form of well equipped lecture halls and laboratories with advanced analytical equipments & testing facilities besides there is an Experimental Dairy Plant for practical and hands-on training of the students.

The course curriculum of B.Tech (Dairy Technology) programmes is as per the recommendations of the 5th Deans Committee of by ICAR, New Delhi. For PG and PhD courses the college is following the syllabus as recommended by BSMA Committee of ICAR. Well structured course curriculum and excellent faculty makes us a leading institute of Dairy Science & Technology in India. Though this is one of the youngest Dairy Science Colleges but its alumni are well positioned in dairy industry and higher education institutes both in India and abroad.

I hope this 'Orientations Handbook' would be helpful to guide you in your soft landing to the university system.

I wish you all the very best.

Dr Ramneek

Dean

College of Dairy Science & Technology

ਗੁਰੂ ਅੰਗਦ ਦੇਵ
ਵੈਟਨਰੀ ਅਤੇ ਐਨੀਮਲ ਸਾਇੰਸਜ਼ ਯੂਨੀਵਰਸਿਟੀ

The University at a Glance

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana came into being on 21st April, 2006 through Punjab Act no. 16 of 2005. The primary focus of the university is to serve the society by promoting livestock sector in Punjab through its teaching, research and extension programmes. The university is accredited by the Indian Council of Agricultural Research (ICAR), New Delhi - with 'A' grade, and has been ranked No. 1 university among the Veterinary/Animal Sciences University during the year 2018. Here is an overview of the different constituent & affiliated institutes of GADVASU:

Constituent Colleges

- ❖ College of Dairy Science & Technology, Ludhiana
- ❖ College of Veterinary Science, Ludhiana
- ❖ College of Veterinary Science, Rampura Phul (Bhatinda)
- ❖ College of Fisheries, Ludhiana
- ❖ College of Animal Biotechnology, Ludhiana
- ❖ Veterinary Polytechnic, Kaljharani (Bhatinda)

Regional Research & Training Centre (RRTC):

- ❖ RRTC, Kaljharani (Bhatinda)
- ❖ RRTC, Thalwara (Hoshiarpur)
- ❖ RRTC, Booh (Tarn Taran)

GADVASU

Affiliated Colleges

- ❖ Khalsa College of Veterinary and Animal Sciences, Amritsar
- ❖ Baba Hira Das Ji College of Veterinary Pharmacy, Badal (Sri Muktar Sahib)

Krishi Vigyaan Kendra (KVK)

- ❖ KVK, Majri (Mohali)
- ❖ KVK, Handiaya (Barnala)
- ❖ KVK, Booh (Tarn Taran)

Institutional Structure of GADVASU

College of Dairy Science and Technology

To meet the trained manpower requirements of dairy industry in Punjab, College of Dairy Science and Technology was established in the year 2008 as one of the constituent colleges of GADVASU. B.Tech.(Dairy Technology) programme is the flagship programme of the college. The total intake capacity in this Programme is 51 students/ year. The college is accredited with ICAR, New Delhi and following the course curriculum as recommended by the 5th Dean's Committee of ICAR. Besides the undergraduate programme the college is also having Masters programme in all five disciplines and PhD programme in four disciplines. The college is blessed with young and dynamic faculty with wide exposure and very good infrastructure, especially laboratory facilities and Experimental Dairy Plant. The university also has a special provision for candidates from outside Punjab under 'Other State Quota'.



FACULTY PROFILE



Dr. Ramneek
Dean

Department of Dairy Technology



Dr. Siva Kumar
Associate Professor



Dr. P. K. Singh
Assistant Professor



Dr. Nitika Goel
Assistant Professor



Dr. Rekha Chawla
Assistant Professor



Dr. Sunil Kumar
Assistant Professor



Mr. Venus Bansal
Assistant Professor

Department of Dairy Engineering



Dr. Amandeep Sharma
Assistant Professor



Dr. Goipka Talwar
Assistant Professor



Dr. Narender K. Chandla
Assistant Professor



Er. Gursharn Singh
Assistant Professor

Department of Dairy Chemistry



Dr. Sandeep S. Kakkar
Professor



Dr. Veena N.
Assistant Professor



Dr. Anuradha Kumari
Assistant Professor



Dr. Manvesh K. Sihag
Assistant Professor

Department of Dairy Microbiology



Dr. P.N. Dwivedi
Professor



Dr. Santosh Mishra
Assistant Professor



Dr. Harsh Panwar
Assistant Professor



Dr. Namita Rokana
Assistant Professor

Department of Dairy Economics and Business Management



Dr. Inderpreet Kaur
Associate Professor



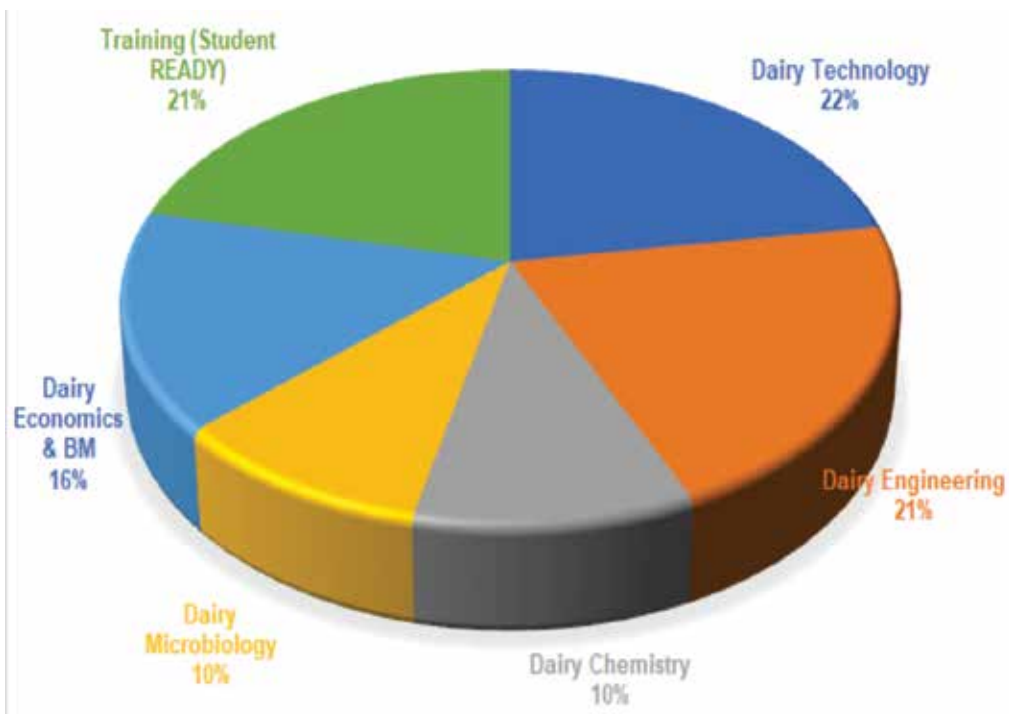
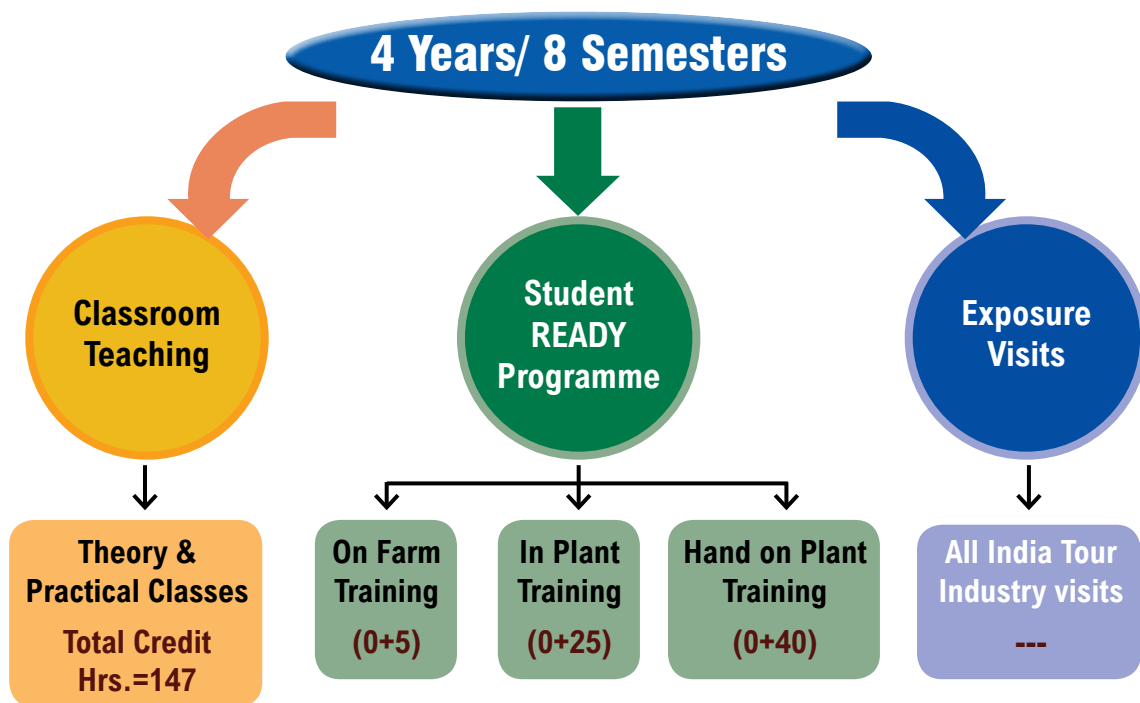
Dr. Varinderpal Singh
Assistant Professor



Dr. Nitin S. Wakchaure
Assistant Professor

Total 21 faculty from 8 states and 7 trained at leading foreign university

B.Tech. (Dairy Technology) Programme





❖ **Smart Classrooms**

- **Interactive Board**
- **Projector**
- **Digital Podium with Visualizer**
- **Sound System**

TEACHING & LABORATORIES FACILITIES

❖ **Book Bank**

❖ **Computer Lab**

❖ **Well-equipped laboratories**

❖ **Experiential Learning Unit**



Teaching & Laboratory Facilities



Hands-on Training @ Experimental Dairy Plant

Experimental dairy plant is an important component of the College of Dairy Science & Technology. It was commissioned in the year 2010 with an installed capacity of 5000 liters milk per day. It runs on daily basis for round the year, and all the milk produced at university dairy farm is processed and packed in this dairy plant. Besides liquid milk processing i.e. pasteurization, the plant also has provision of making a range of dairy products e.g. dahi, yoghurt, lassi, paneer, ice cream, cheese, milk cake etc.





Hands-on Training on Ice cream making under Experiential Learning Programme



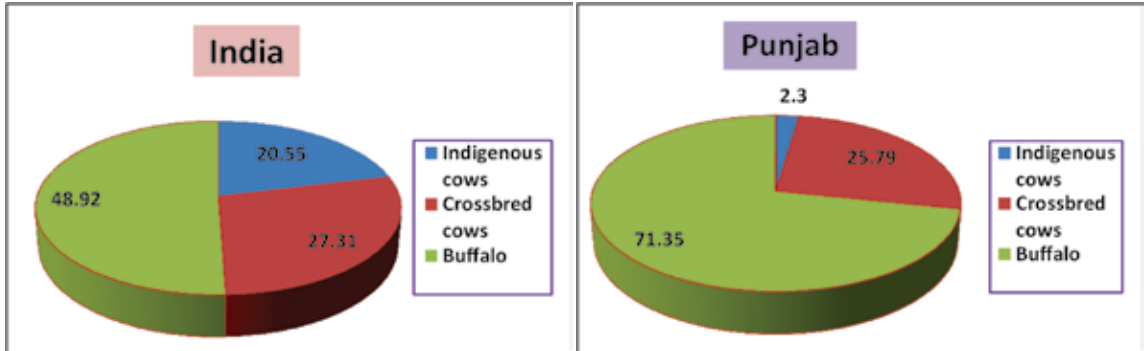
Demonstration of Milk Processing Equipments



Laboratory Spray Dryer

Buffalo Milk & Mozzarella

Species wise contribution in Milk production (in percentage)



Source: BAHS 2019

MILK TO MOZZARELLA



**Whey:
From
Waste to
the Best**



Stages of Mozzarella making

In-Plant Training/ Industrial Exposure



Educational Tour

Class Incharge/Students' Advisory System

Class incharges of different batches

| Year | Photo | Name | Contact Details |
|-----------------|--|---|---|
| 1 st |  | Dr. Gopika Talwar, Assistant Professor (Dairy Engineering) | E-mail: engg_gopika@yahoo.co.in Cell: +91-98765 78765 |
| 2 nd |  | Dr. Narender Kumar, Assistant Professor (Dairy Engineering) | E-mail: chandla84@yahoo.co.in Cell: +91-94641 16738 |
| 3 rd |  | Mr. Venus Bansal, Assistant Professor (Dairy Technology) | E-mail: venusbansal.ndri@yahoo.com Cell: +91-94784 76400 |
| 4 th |  | Dr. P K Singh, Assistant Professor (Dairy Technology) | E-mail: pranav.dt@gmail.com Cell: +91-79019 03990 |

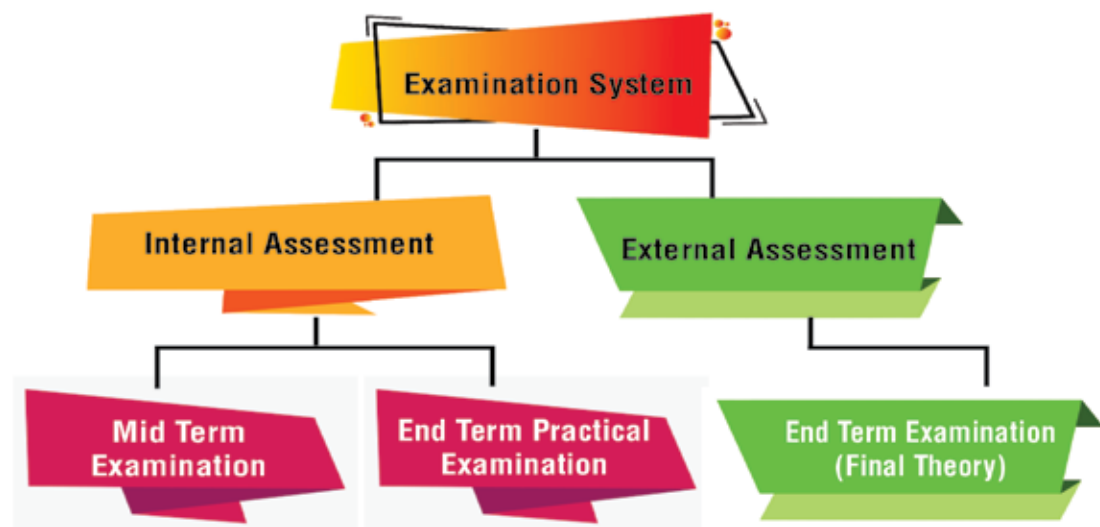
ADVISORY SYSTEM

- ❖ Each student to be allocated an Academic Advisor at the start of programme.
- ❖ Advisors are the **first point to approach** for any assistance related to Academics matters.
- ❖ Advisory meetings are conducted for counselling, taking feedbacks and performance assessment.
- ❖ It's mandatory for every students' to attend weekly advisory meeting with their respective advisors.



Advisory Meeting : Every Wednesday at 4:15 pm.

Evaluation System during Degree Programme



Passing Marks: 50%
(Theory and Practical Examination separately)

Attendance Requirement : 75% minimum

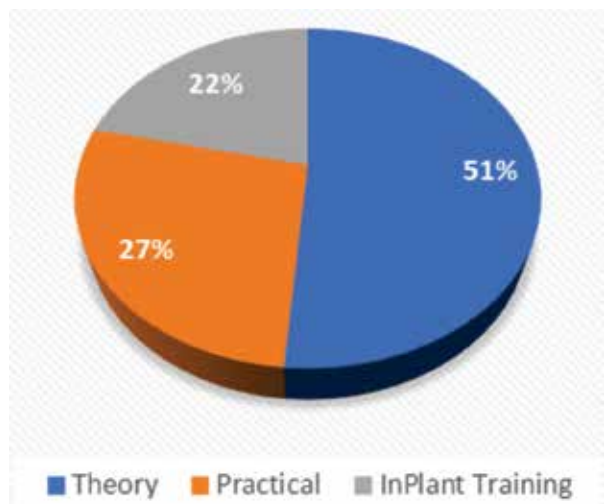
Grading System

- ❁ **Grade Point (GP):** Total marks obtained in a subject out of 100 divided by 10.
- ❁ **Credit Point (CP):** Grade Point multiplied by credit hours.
- ❁ **Total Credit Points:** Sum of the credit points secured.
- ❁ **Grade Point Average:** Sum of total credit points earned divided by sum of credit hours.
- ❁ **Overall Grade Point Average (OGPA):** Sum of grand total of credit points earned divided by grand sum of credit hours.

OGPA & Division

- ❁ 8.000 : 1st Division (Distinction)
- ❁ 7.000 - 7.999 : 1st Division
- ❁ 6.000 - 6.999 : 2nd Division
- ❁ 5.000 - 5.999 : Pass

| Credit Hours | Internal Examination | | External Examination | Total |
|--------------|----------------------|-----------------|----------------------|-------|
| | Mid Term | End of Semester | End of Semester | |
| | Theory | Practical | Theory | |
| 1+1 | 25 | 25 | 50 | 100 |
| 2+1 | 30 | 20 | 50 | 100 |
| 3+1 | 35 | 15 | 50 | 100 |
| 2+0 | 50 | - | 50 | 100 |



Course Credit Hours & Classes

| Example | Theory Class per week | Practical Class per week |
|---------|-----------------------|--------------------------|
| 1+0 | 1 | 0 |
| 1+1 | 1 | 1 |
| 0+1 | 0 | 1 |
| 2+0 | 2 | 0 |
| 2+1 | 2 | 1 |
| 0+2 | 0 | 2 |
| 3+0 | 3 | 0 |

CONVERSION

OCPA to Percent (%) Marks : $Y = 10 \times Z$
 Y-% Marks, Z-OCPA



CREDIT POINTS (CP) CREDIT POINT AVERAGE (CPA) OVERALL CREDIT POINT AVERAGE (OCPA)

$$CP = \text{MARKS}/100$$

CPA OF SEMESTER

$$\frac{\text{Sum of (CP X Cr. hrs.) of All Courses}}{\text{Total Cr. hrs. of All Courses}}$$

OCPA: Cumulative CPA of All Semesters

Pattern of End Term Examination

Objective type questions : 40%

Subjective type questions : 60%

Scholarships, Merit Certificates and Medals

HARD WORK ALWAYS PAYS OFF



College Gold Medal:

Awarded to a student securing the highest OCPA/OGPA (but not less than 8.00 / 10.00)

Dr. Balwant Singh Gold Medal:

This Gold Medal is awarded to an all-rounder best graduate student at university level.

Merit Certificates:

Awarded to the students who achieve an OCPA/OGPA of 8.00/10.00 or above.

Fellowships and Scholarships

The following scholarships are available for the students of College of Dairy Science and Technology:-

- Dr. G.S. Khush Scholarships @ ₹ 1200/- month : Two students per year
- University Merit Scholarship for the meritorious students @ ₹ 500/- month
- National Talent Scholarship for students admitted under ICAR quota @ ₹ 1000/- month
- Sports Scholarship for sports persons @ ₹ 350/- month
- Other Scholarships of Punjab Government

Discipline is the Key to Success...

Maintenance of Discipline

- ❖ All students are expected to follow university rules and maintain discipline.
- ❖ To safe guard the campus discipline Disciplinary Committees are there at college and university level.
- ❖ Task Force at university level to monitor women security and safety.
- ❖ To address complaints, Grievance Redressal Management Committee at college and university level.

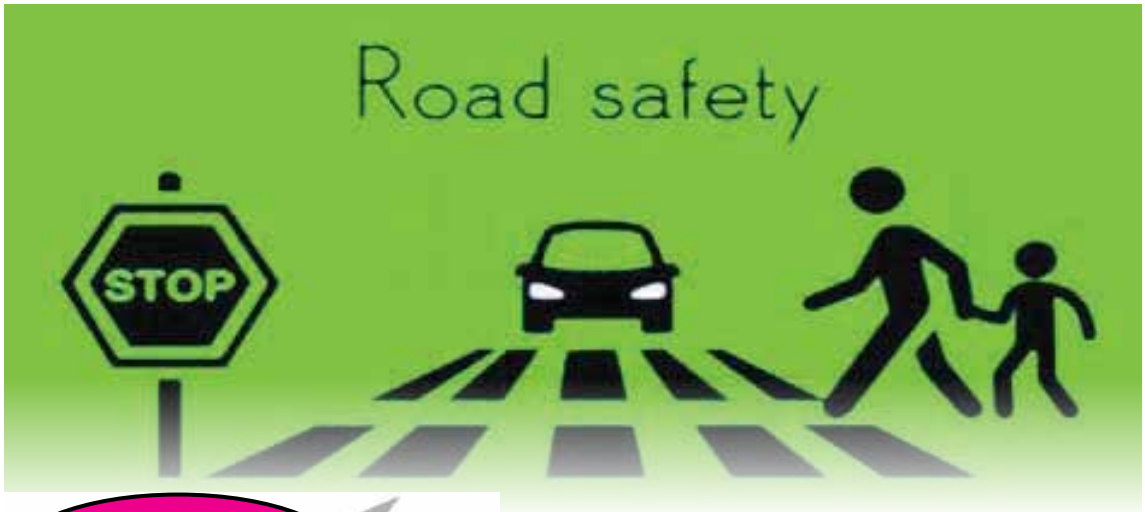
Any act of indiscipline may lead to suitable disciplinary action including **Conduct Probation**, debar from hostel or rustication from the university.

Ragging Free Campus



| Anti-Ragging Committee at College Level | | Contact No. |
|--|----------|-----------------|
| Dr. S.K. Mishra, Asstt. Prof. (DM) | Chairman | +91-94649-95049 |
| Dr. Varinderpal Singh, Asstt. Prof. (LE) | Member | +91-81464-00214 |
| Dr Nitika Goel, Asstt. Prof. (DT) | Member | +91-81463-14448 |
| Dr Amandeep Sharma, Asstt. Prof. (DE) | Member | +91-98888-81993 |
| Dr. Narender Kumar, Asstt. Prof. (DE) | Member | +91-94641-16738 |

Your Behavior on Road Reflects Your Personality



Important Symbol & its Meaning

Road Etiquettes and Safety

- ❖ Always wear **helmet** if on a two-wheeler.
- ❖ Follow speed limit.
- ❖ Lane driving is a safe driving.
- ❖ Give way to pedestrians.
- ❖ Share the road.

| | | | | |
|-----------------|------------------|-------------------|---------------|---------------|
| | | | | |
| Turn left ahead | No left turn | No motor vehicles | Bend to left | No overtaking |
| | | | | |
| Two way traffic | Road work | Turn right ahead | Hump | Roundabout |
| | | | | |
| No right turn | Crossroads ahead | Give way | Maximum speed | No cycling |
| | | | | |
| One way traffic | Falling rocks | Wild animals | Merge | Parking lot |
| | | | | |
| Stop & give way | No parking | Bend to right | Slippery road | Uneven road |

Practicing Road Safety is more important than preaching it....

Things to Do

Student Identity Card

- ❖ Your Identity Card is proof of you being a legitimate and registered student of the university.
- ❖ Newly admitted students can collect the application form for Identity Card from College office.



University Library Card

- ❖ To avail the library services, student library card is required.
- ❖ Application form for University Library Card can be obtained from the Library Counter.



Student Medical Card

- ❖ There is common Hospital, located opposite to the mini-shopping complex in PAU Campus, shared by students of PAU & GADVASU.
- ❖ To avail any medical services your medical card will be essential.
- ❖ Application for getting Medical Card issued can be obtained from the Office of University Welfare Officer by presenting admission fee slip.



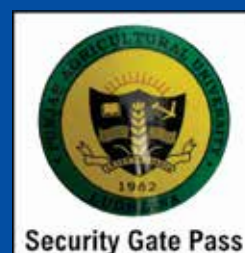
Bank Account:

- ❖ The campus has two banks i.e. State bank of India and Bank of Baroda.
- ❖ The students are required to open a Bank account. A bank account is required for disbursement of scholarships, Internship allowance etc.



Vehicle Pass:

- ❖ The students are allowed to keep two wheelers only to commute within the campus.
- ❖ The gate pass for two wheelers can be obtained from PAU Estate office after completing necessary requirements and payment of fee.



Hostel Facilities



- ❖ Separate hostel facilities for girls and boys.
- ❖ Each hostel has following facilities: Mess, TV Room, Indoor Game Room, Gymnasium, Canteen and Guest Room.



Hostel Allotment Rules:

- Merit and Seniority is considered.
- Personal presence is required.
- Every boarder is provided with a chair, a table and a bed.
- The removal of electric fittings and bed from the room is prohibited.

Best thing that's
happened this year ?
May be Hostel !

Co-Curricular Activities

All students are required to complete any one of the following during first two years of their degree programme:

- ❖ National Service Schemes (NSS)
- ❖ National Sports Organization (NSO)

NSS Programme

The sole aim of the NSS is to provide hands-on experience to young students in delivering community service.



Moto of NSS:
NOT ME BUT YOU



Social
Awareness...



Responsible
citizen...



Sports

Aim & Objectives of NSO Programme:

- ❖ To impart intensive training and skill drills in various games to make students enrolled under this programme physically fit.
- ❖ It serves as sports nursery for the formation of University Teams which participate in All India Inter-Varsity Tournaments.



Sports

Sports Facilities Available

- Technical guidance by well-trained and experienced coaches.
- Dedicated sports incharge at college level for every game.
- Focused attention to upcoming with special diet plan for preparation of inter-university competitions.



Sports teaches us that something constructive comes from every defeat.

Annual Youth Festival



Career Opportunities for Dairy Technology Graduates

India is world's largest milk producer and Government of India has set an ambitious plan of doubling the milk processing capacity in the country by the year 2025 which will need additional technical manpower.

A variety of lucrative career opportunities are available to the Dairy Technology Graduates.

Dairy Graduates are in High Demand

Entrepreneurship

(Startups in Dairy & Food Processing sector)

Job Opportunities in Co-operative Dairy Plants

(Verka, Amul, Mother Dairy, etc.)

Job Opportunities in Food/ Food Ingredients Industry

(Nestle, Heinz, PepsiCo, ChrHansen, DuPont etc.)

Higher Studies in India & Abroad

(Specialized Master & Ph.D. Degree, Specialized MBA Programme at IIMs & IRMA, Anand)

Consultancy Services

(Entrepreneurs, Dairy & Food Industry, Dairy Development Organization & NGO's)

Government Sector

(Civil Services, Banking Services, Food Safety Officer, Food Analyst, Indian Railway/ IRCTC & Indian Army)

Most of our Students' are recruited through Campus Placement

Ex-Deans of the College



Dr. O.S. Parmar
Founder Dean, CODST
19.07.2007 – 31.05.2010



Dr. S.P.S. Sangha
Dean CODST
1.06.2010 – 27.05.2015



Dr. A.K. Puniya
Dean CODST
28.05.2015 – 27.09.2019



Dr. S K Uppal
Dean CODST
1.10.2019 – 17.09.2020



Alumni of the College

❖ Although the college is one of the youngest among all Dairy Science Colleges in the country, but its alumni are well placed in

- ✓ Dairy/food industry in India and abroad.
- ✓ State Dairy Department.
- ✓ Pursuing higher studies in leading foreign universities in US, Canada, Australia and New Zealand.



Mr. Randeep Kumar Handa
Deputy Director Dairy, Ferozpur
Dairy Development Dept. Pb.



Mr. Akashdeep S. Beniwal
Ph.D. Scholar,
Massey University,
New Zealand



Mr. Harjinder S. Jawanda
Managing Director at Farmer's
Fodder Pvt. Ltd



Mr. Tarunvir Singh Sandhu
International Marketing
Manager, Namdhari Pvt. Ltd.



Mr. Lovepreet Singh Gill
Ph.D. Scholar,
University of Idaho, USA



Mr. Amninder Singh Sekon
Ph.D. Scholar,
Washington State University
USA

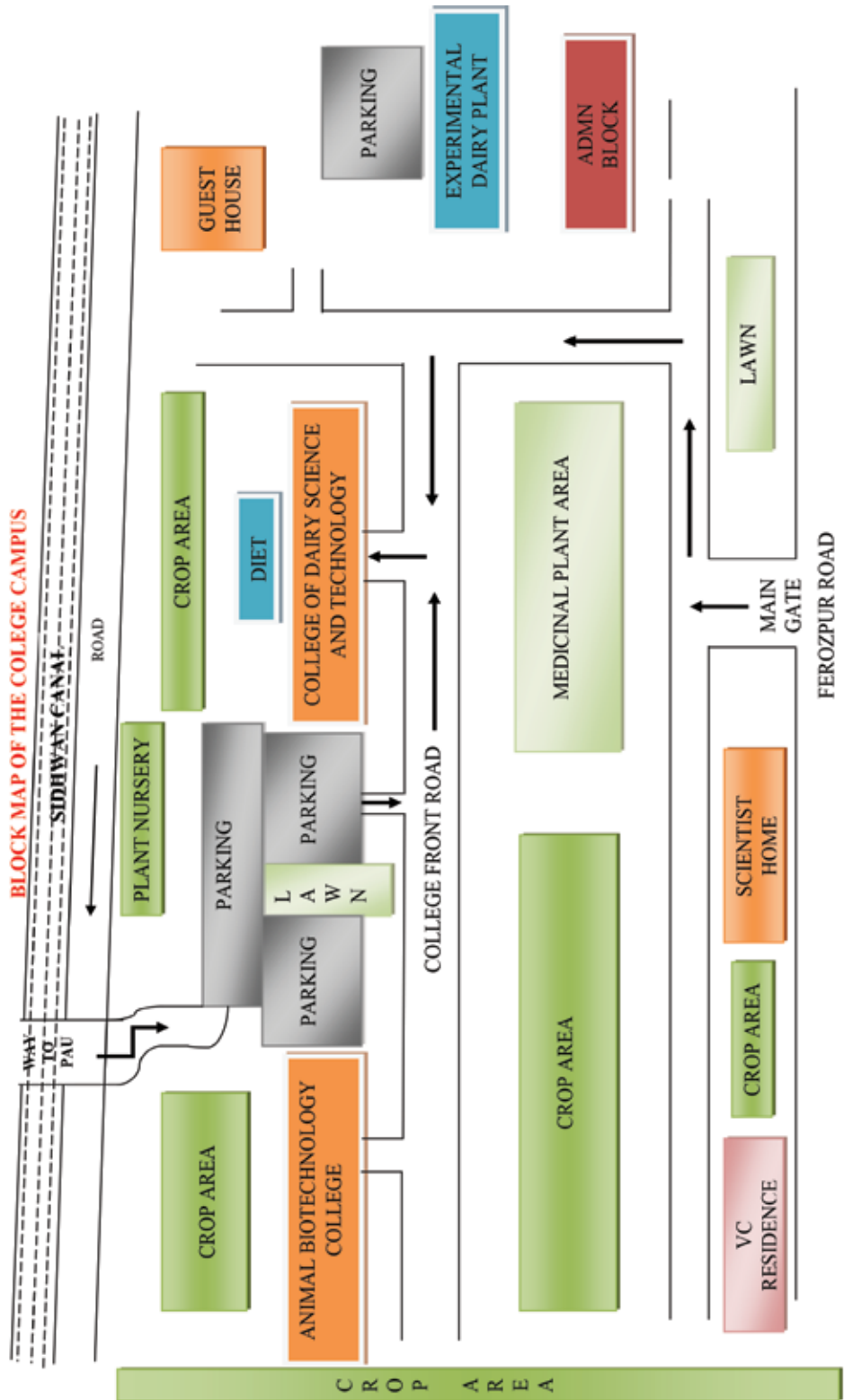


Mr. Arshdeep Singh Sandhu
Ph.D. Scholar,
Washington State University
USA



Ms. Ramandeep Kaur
MS (Food Science),
University of British Columbia
Canada

BLOCK MAP OF THE COLLEGE CAMPUS



Important Contacts

| Sr. No. | Name & Designation | Contact Number |
|---------|---|---|
| 1. | Dr. Satyavan Rampal Director, Students' Welfare-cum-Estate Officer GADVASU, Ludhiana | 0161-2552268 dsw@gadvasu.in |
| 2. | Dr. Digvijay Singh Professor-cum-Head, Department of Veterinary Physiology & Biochemistry Chief Warden, Hostels Chairman, Anti Ragging Squad, COVS | +91-94174-76565 digvijay231@rediffmail.com |
| 3. | Dr. P.K. Singh Asst. Professor Chairman, Grievances Redressal Committee, CODST | +91-790190-3990 pranav.dt@gmail.com |
| 4. | Dr. Shabnam Sidhu Girl's Hostel Warden | +91-99154-19146 vetsidhu@gmail.com |
| 5. | Mrs. Nidhi Sharma Lady Welfare Officer & Warden Scientist Home | +91-98152-50950 sharmanidhi2005@gmail.com |



| Facility | Contact |
|--------------------------------------|---|
| PAU University Hospital | e-mail: cmo@pau.edu Ph. No.: 0161- 2401016 |
| Civil Hospital, Ludhiana | Ph. No.: 0161-2685577 |
| Dayanand Medical College & Hospital | e-mail: contact@dmch.edu Ph: 0161- 4688800, 4687700 (60 Lines) |
| Christian Medical College & Hospital | e-mail: contact@cmcludhiana.in Ph: 061-2115000 |
| Satguru Partap Singh Hospitals | e-mail: info@sps hospitals.com Ph: +91-8283838392 |

Academic Programmes, Admission Capacity and Eligibility

| DEGREE PROGRAMMES | | | | Eligibility |
|---------------------------|---|----------|-------------------------|--|
| Sr. No. | Name of Degree Programme | Duration | No. of seats/ Intake | |
| UNDERGRADUATE | | | | |
| 1. | B. Tech. (Dairy Technology) | 4 Years | 51 | Senior secondary (10+2) with English, Physics, Chemistry and Mathematics with 50 % marks in aggregate (45 % for persons with disability and 40% for SC/ST, BC category) excluding optional subject |
| MASTER'S PROGRAMME | | | | |
| 2. | M.Tech. (Dairy Technology) | 2 Years | 4+(2) | Undergraduate degree in relevant discipline with minimum OCPA of 6.00 (out of 10.00) or at least 60% marks in aggregate from a recognized institute/college/university established by law in India |
| 3. | M.Tech. (Dairy Engineering) | 2 Years | 2+(1) | |
| 4. | M.Tech. (Dairy Microbiology) | 2 Years | 2+(1) | |
| 5. | M.Tech. (Dairy Chemistry) | 2 Years | 2+(1) | |
| 6. | M.Sc. [Agricultural Economics (Animal Husbandry)] | 2 Years | 2+(1) | |
| DOCTORAL PROGRAMME | | | | |
| 7. | PhD. (Dairy Technology) | 3 Years | 2+(1) | Masters' degree in relevant disciplines with OCPA of 7.00 (out of 10.00) or 70% marks or equivalent at Master's level. They should have a minimum OCPA of 5.50 (out of 10.00) or 55% marks or an O GPA of 2.00/4.00 or equivalent (old system) at Bachelor's level from a recognized institute/college/university established by law in India. |
| 8. | PhD. (Dairy Engineering) | 3 Years | 1+(1) | |
| 9. | PhD. (Dairy Microbiology) | 3 Years | 1+(1) | |
| 10. | PhD. [Agricultural Economics (Animal Husbandry)] | 3 Years | 1+(1) | |



NATIONAL AGRICULTURE HIGHER EDUCATION PROJECT (NAHEP)

‘Orientation Handbook’ published under Project: Institutional Development Plan for improved Learning Outcome, Skill and Entrepreneurship at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

Project Implementation Unit (PIU)

National Director (NAHEP): Dr. R.C. Agrawal, Deputy Director General (Education)

National Coordinator (IDP): Dr. P. Ramasundaram, National Coordinator

IDP Leader: Dr. Inderjeet Singh, Vice Chancellor, GADVASU

Principal Investigator / Coordinator: Dr. Sarvpreet Singh Ghuman, Dean, College of Veterinary Science

Associate Coordinator: Dr. Opinder Singh, Professor, Veterinary Anatomy

Nodal Officer of IDP

Environment Management Officer: Dr. Satyavan Rampal, Director Students Welfare-cum-Estate Officer

Grievance Redress Mechanism Cell Officer: Dr. Opinder Singh, Professor, Veterinary Anatomy

Social Safeguard Officer: Dr. Varinder Uppal, Professor-cum-Head, Veterinary Anatomy

Project Monitoring and Evaluation Nodal Officer: Dr. Mrigank Honparkhe, Professor, Veterinary Gynecology & Obstetrics

Procurement Officer: Dr. Nirbhay Kumar Singh, Associate Professor, Veterinary Parasitology

IDP Team Members

College of Dairy Science & Technology: Dr. Varinder Pal Singh, Asst. Professor

College of Veterinary Science: Dr. Nitin Mehta, Assistant Professor

College of Fisheries: Dr. Vaneet Inder Kaur, Scientist

NOTES

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NOTES

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Compiled by: Narender Kumar and Gursharn Singh
Editing & Creative Inputs: Inderpreet Kaur and Pranav K. Singh

COLLEGE OF DAIRY SCIENCE AND TECHNOLOGY
Guru Angad Dev Veterinary and Animal Sciences University
Ludhiana- 141004, Punjab Ph.: 0161-2553308 Website: www.gadvasu.in