

# DOLPHIN (PG) INSTITUTE

OF BIOMEDICAL & NATURAL SCIENCES

AN AUTONOMOUS COLLEGE

**HONOURS  
BEYOND  
EDUCATION**



# PROSPECTUS 2025-26



**AFFILIATED TO**  
HNB GARHWAL  
CENTRAL UNIVERSITY

**RECOGNIZED BY**  
UNIVERSITY GRANTS  
COMMISSION (UGC) u/s. 2(f)

**ACCREDITED BY**  
NAAC  
A+ (2<sup>nd</sup> Cycle)

**APPROVED BY**  
GOVERNMENT OF UTTARAKHAND,  
AICTE, IAP & NCTE

**RECOGNIZED BY**  
UTTARAKHAND  
PARAMEDICAL COUNCIL

**RECOGNIZED AS**  
NPTEL LOCAL CHAPTER  
BY IIT MADRAS



## VISION

**Lead the youth on a journey of knowledge and innovation, along with cultivating a sense of responsibility, perseverance, integrity and fellowship to fortify society on a global scale.**

## MISSION

Steadfastly delivering holistic and ethical development of students with education. Focusing on learning inside the classroom, and beyond, by nurturing qualities of leadership, teamwork, self-agency and ingenuity in all the lives we touch.

## CORE VALUES

With encouragement and enthusiasm in each tireless, dedicated step into a future that embodies the institute's novel motto of "Honours Beyond Education".

## GOALS & OBJECTIVES

- Achieving excellence with a balance of academic aptitude, vocational skills and extracurricular indulgence.
- Promoting a process of life-long learning through implementation of NEP 2020.
- Enriching and reforming the curriculum according to industry demands with counsel of distinguished experts and academics.
- Providing and promoting opportunities to disadvantaged sectors and minorities of the society through numerous scholarships.
- Inculcating humane values and ethics on all accounts through outreach programmes.
- Minimizing environmental impacts due to the institute's activities, and, using available resources optimally, to advance sustainability.



## a few WORDS



### BY THE CHAIRMAN

"The pen is mightier than the sword."

I am truly humbled to be the Chairman of Dolphin (PG) Institute, where education and culture comes alive in a splendid symphony. I am of the opinion that any country's future rests in the hands of its youth. Quality education is an essential element in that, be it inside a classroom or beyond.

I count myself blessed, that I can do my part in making a space that encourages all-rounded growth of every student, by the medium of this institute. Instilling values of honour, dedication, perseverance, competence and fellowship amongst all students has been a great privilege. I am committed to an ever-forward path in strengthening our education system. After achieving autonomous status (granted by UGC and HNBU) and introduction of NEP 2020 from academic year 2024, I hope to build an even more inclusive, flexible and empowering campus for our students. I believe that enabling students to create unique curriculums tailored to their interests and passions to enhance their vocational and life skills will make our youth emerge as leaders in the global community.

It is my greatest ambition to lift up the pen that represents - edification, learning, growth, and solidarity - for a promising future filled with peace, light and prosperity.

I extend my thanks, to all marvellous faculty members and to our wonderful students along with the most admirable troop of parents. All of you collectively make the very backbone of this vibrant institute.

May our drive and zeal lead us all towards great success.

**C.A. Arvind Gupta** Chairman -Dolphin (PG) Institute

### BY THE VICE PRESIDENT

As an undisputed leader in the educational sphere of biomedical, paramedical, natural and allied sciences, Dolphin (PG) Institute of Biomedical & Natural Sciences - An Autonomous College, located in the scenic city of Dehradun, has played a distinguished role in enhancing the academic structure of Uttarakhand state, since its establishment in the year 2002.

Conferment of Autonomous Status; yet again confirms the dedication of this institute in providing & promoting holistic higher education. Studying at Dolphin (PG) Institute promises widespread exciting opportunities in all academic aspects, including assured positive job avenues in diverse fields. Dolphin (PG) Institute is led by a vision of delivering most relevant curriculums with consultation of national and global industry experts. It is achieved by a commitment to conducting quality teaching-learning practices with a personalized and student centric approach. The emphasis is placed on education; by not only productive lectures or laboratory work, but also engaging fieldwork and extensive extracurricular activities. An all-rounded nurturing for students' holistic growth to gift them with an extra edge is the ultimate goal of DIBNS.

I am confident that this institute will live up to all expectations, hence succeeding in winning the confidence of students, parents, and other stakeholders alike. I hope that DIBNS prospers and continues to set higher standards in the global educational sphere.

I extend my best wishes to all imminent professionals and committed members of The Dolphin Family.

**Adv. Prateek Garg** Vice President -Dolphin Educational Society of India

### BY THE PRINCIPAL

Dear prospective students, At the very outset, I would like to thank you for showing your interest and reaching out to us at DIBNS through our various platforms.

The Institute since its inception in 2002 has strived for excellence, focusing on ever evolving and soaring standards in the field of education. It gives me immense pleasure to have you with us, as we continue on our remarkable journey. Looking back at the past years there is so much to proudly celebrate. We have been extremely successful in all avenues of academic, sports and cultural life. Our students have consistently attained topmost positions in university ranks. They also perpetuate the tradition of outstanding performance in extracurricular and sporting events as they collect laurels at the National, State, Regional & University levels year after year.

DIBNS became Uttarakhand's first Autonomous College affiliated to a Central University, this year. We are prepared to implement NEP 2020 and all its benefits, offering a wide range of academic programmes with student centric curriculum for their holistic development. We are proud to boast high quality teaching-learning environment in smart classrooms and extensively equipped laboratories. With enriching conferences, seminars, guest lectures, workshops focused on vocational skill & ability building, internships, field experiences, research opportunities, entrepreneurship skills development programmes, industry orientation and much more - we continuously strive to achieve our motto of 'Honours Beyond Education'.

I once again welcome you all at DIBNS, with the assurance of a nurturing and conducive environment that will prepare you to flourish into empowered and sensitive human beings, ready to take on the challenges and opportunities that life presents you. Let DIBNS be the best platform to accomplish all your dreams!

**Prof. (Dr.) Shailja Pant** Principal -Dolphin (PG) Institute

# Uttarakhand's *first*<sup>\*</sup> **AUTONOMOUS** **COLLEGE**

\*100% self financed with Central University Affiliation

You are welcomed to a 1-stop NEP Powered destination, promising an ever-evolving and customizable curriculum with numerous add-on courses, extensive extra-curricular events and pensive examinations, with fair and timely evaluations, and declaration of results. All conducted and regulated by the college itself. With everything packaged neatly within an engaging, time efficient academic calendar. **And the bow on top is your degree, awarded on successful completion by the affiliating central university (HNB Garhwal University – A Central University).**

We, as an autonomous institute, are only committed to YOU. The aim is focused on your holistic development and employability. The standard is set in sky by our accountability to UGC and HNBGU guidelines. The operation is thriving with dedication to help you achieve your greatest potential.





**WE STAND**

# **AGAINST RAGGING**

Fellowship is cultured within communities through mutual respect and gratitude. These very values are undermined by the practice of ragging. The Dolphin (PG) Institute believes in strengthening society by encouraging healthy fellowship between all our students. Ragging remains a disturbing reality for many in Higher Educational Institutes; we recognize that ragging can psychologically and physically cause students serious, sometimes fatal, harm. It is a detriment to students' flourishing growth as individuals and as a group. We aim to eradicate this repulsive practice from the campus and have zero tolerance for any form of ragging and are committed to keeping the DIBNS campus ragging-free, with the help of our Anti-Ragging Cell. Anyone found to be guilty of ragging will face strict disciplinary action and will be liable for legal actions as per the Law of the Land.

**WE STAND**

# **AGAINST SEXUAL HARASSMENT**



Sexual Harassment is an attack on a person's fundamental rights. It is a reprehensible offense that leaves deep emotional, psychological, and physical scars on its victims/survivors. Any form of sexual harassment, anywhere – online, workplace, on the college campus, in public space, or residential quarters – is inexcusable. Every individual & organization bears a responsibility to band together for the eradication of this crime. At DIBNS we strive to build an environment where everyone, irrespective of their gender, is equally valued and respected – a place where people can operate without the fear, indignity, and harm that sexual harassment brings.

We have a zero-tolerance policy for any hint of sexual harassment against anyone, enforced by our Internal Complaints Committee (ICC). Perpetrators of this crime will face strict disciplinary actions and are liable for legal actions as per the Law of the Land.



**WE STAND**

# **AGAINST NARCOTICS**

Narcotic use and dependency, in our country has been an area of major concern, which has sparked a nation-wide movement against narcotics. Dolphin (PG) Institute is committed to do our part in this battle. Narcotics use has been proven to negatively affect academic, social, psychological, economical and physiological development, and can often be fatal. Hence, it is strictly prohibited to use any narcotics by any representative of our institute. Students who are found to be using/selling/encouraging drug use are subject to strict disciplinary actions, including mandatory counseling sessions, and are liable for legal actions as per the Law of the Land.

# ADMISSION PROCESS FOR UG & PG PROGRAMS

## APPLICATION PROCESS

An online application form for admission is available on the Institute's website. Applicants must fill out the form, upload their signature and photo, and submit the form online. Students can contact our expert admission counselors in case of any query.

## SUBMISSION OF DOCUMENTS

After submitting the online application, students must submit a printed copy of the following to the Admission Cell -

1. Admission form with their and their parent's signatures on it.
2. Prescribed documents and testimonials.
3. UG-CUET Scorecard for admission in UG Programme.
4. PG-CUET Scorecard or University Entrance Examination Scorecard for admission in PG Programme.

## MERIT LIST AND COUNSELING

The first merit list will be declared based on the CUET scores or University Entrance Examination scores of the applicants. If seats remain vacant after the first counseling, the next list will be prepared based on the scores of the last examination as per the eligibility of the programme as described in the ordinance.

For seats still vacant after the second counseling, admission will be granted on a first-come, first-served basis for eligible candidates.

## PLEASE NOTE

- \*The admission process is considered complete only after the payment of fees for the program allotted by the admitting authority within the prescribed time frame.
- \* Admission of foreign nationals/NRI students will be granted as per the guidelines of the Parent University.
- \* Merit lists will be prepared according to Point No. 3 of the admission policy (read more at [dolphininstitute.ac.in](http://dolphininstitute.ac.in)).
- \* Weightage will be given to holders of NSS/NCC/ Sports certificates as per the rules and guidelines of the parent university.
- \* Document verification will be done at the time of admission. If the documents are found to be inconsistent with the information provided online, the name in the merit list will be canceled.

# FEE STRUCTURE (2025-26)

## PROGRAMS OFFERED

Fee Per Semester  
(In Rs.)

### Faculty of Basic and Allied Sciences

► B.Sc. (Honours)  
● Botany ● Zoology ● Chemistry ● Biotechnology ● Psychology ● Physics ● Microbiology

35,000/-

► M.Sc. ● Botany ● Zoology ● Chemistry ● Physics

35,000/-

● Microbiology ● Biotechnology

45,000/-

● Pharmaceutical Chemistry

40,000/-

● Biochemistry

35,000/-

### Faculty of Paramedical Sciences

► B.Sc.  
● Medical Lab. Technology ● Medical Microbiology  
● Medical Radio-Imaging Technology ● Operation Theatre Technology

35,000/-

► M.Sc. ● Medical Lab. Technology

35,000/-

### Faculty of Agriculture Sciences

► B.Sc. (Honours)  
● Agriculture ● Forestry

40,000/-

► M.Sc. ● Horticulture ● Forestry

40,000/-

● Agronomy

45,000/-

● Food Technology

35,000/-

### Faculty of Physiotherapy

● Bachelor of Physiotherapy (BPT)

45,000/-

► Master of Physiotherapy (MPT)

45,000/-

● Musculoskeletal Sciences / Neuro Sciences / Sports Sciences / Cardiopulmonary Sciences \*

### Faculty of Management

► BBA  
● Banking & Finance ● Banking & Insurance ● Logistics & Supply Chain Management  
● Marketing Management ● Entrepreneurship ● Business Analytics ● Stock Analysis

35,000/-

► MBA  
● Agri Business Management ● Business Analytics ● Marketing ● Finance ● Fintech  
● Human Resources ● Hospital Management

75,000/-

### Faculty of Computer Sciences

► BCA (Honours) ● Artificial Intelligence ● Data Analysis

35,000/-

### Faculty of Education

► B.Ed.

30,000/-

### Faculty of Commerce

► B.Com. (Honours)

35,000/-

► M.Com.

35,000/-

### Faculty of Humanities

► BA (Honours)  
● Political Science ● Sociology ● History ● English ● Economics

25,000/-

## NOTE:

- Different SCHOLARSHIP SCHEMES available (for more details visit - [www.dolphininstitute.ac.in](http://www.dolphininstitute.ac.in)).
- Examination fee Rs. 6,000/- per sem., Library charges Rs. 500/- per sem., Sports fee Rs. 250/- per sem.
- DSWC fee Rs. 500/- per sem.
- Hostel fee Rs. 85,000/- per year (Optional).
- Accidental insurance hospitalization premium for max. Rs. 1 Lac IPD @ Rs. 200/- per annum.
- Transportation charges at actual rates depending upon distance covered (optional).
- Processing fee Rs. 5,000/- (Non-refundable).
- Registration charges Rs. 10,000/-.
- Security: Rs. 2,500/- (refundable after successful completion of program).
- Uniform Charges Rs. 6,000/-
- Project Fee: Rs. 7,000/- for dissertation of post graduate students, to be paid at the beginning of fourth semester.
- Multiple Entry and Multiple Exit (ME-ME) in Academic Programs as per NEP-2020 and UGC Guidelines.
- All programs follow semester system.

Different Scholarship Schemes are available, for details please visit-  
Website :  
[dolphininstitute.ac.in](http://dolphininstitute.ac.in)

Schedule for payment of tuition fee, hostel, mess fee & laundry charges:  
1st Installment by 7th June & 2nd Installment by 7th December.

No separate intimation/reminder will be sent for depositing the fee, any delay in depositing fee would carry a late fee fine.

## REFUNDS (as per UGC guidelines)

Category	Percentage of Refund of fees	Point of time when notice of withdrawal of admission is received in the HEI
01	100%	15 days or more before the formally notified last date of admission
02	90%	Less than 15 days before the formally notified last date of admission
03	80%	15 days or less after the formally notified last date of admission
04	50%	30 days or less, but more than 15 days after formally notified last date of admission
05	00%	More than 30 days after formally notified last date of admission

### Please Note :

1. To claim a refund on tuition fees, a formal application must be submitted in-person to the accounts section.
2. Refunds will be processed through banking services. No refund will be approved by means of cash.
3. All approved refunds will be processed within 30 working days.

# List of Faculty

## DEPARTMENT OF BIOTECHNOLOGY

**Dr. Shalini Singh** : M.Sc. (Ag.) Genetics & Plant Breeding, Ph.D., NET  
**Ms. Deepti Gulati** : M.Sc. Biotechnology, NET  
**Dr. Sachin Singh** : M.Sc. Biotechnology, Ph.D.

## DEPARTMENT OF ZOOLOGY

**Dr. Beena Joshi Bhatt** : M.Sc. Zoology, Ph.D.  
**Dr. D.K. Bhardwaj** : M.Sc. Zoology, Ph.D.  
**Dr. Deepali Rana** : M.Sc. Zoology, Ph.D.

## DEPARTMENT OF BOTANY

**Dr. K.P. Tripathi** : M.Sc. Botany, Ph.D.  
**Dr. Vidit Tyagi** : M.Sc. Botany, Ph.D.  
**Dr. A.K. Pundir** : M.Sc. Botany, Ph.D.

## DEPARTMENT OF BIOCHEMISTRY

**Prof. (Dr.) Gyanendra Awasthi** : M.Sc. Biochemistry, Ph.D., NET  
**Dr. Ankur Adhikari** : M.Sc. Microbiology, Ph.D.  
**Dr. Lokendra Kumar** : M.Sc. Biochemistry, Ph.D.

## DEPARTMENT OF PHARMACEUTICAL CHEMISTRY & CHEMISTRY

**Prof. (Dr.) Versha Parcha** : M.Sc. Organic Chemistry, M.Phil, Ph.D.  
**Dr. Deepak Kumar** : M.Sc. Pharmaceutical Chemistry, Ph.D.  
**Dr. Ritu Singh** : M.Sc. Pharmaceutical Chemistry, Ph.D.  
**Dr. Raju** : M.Sc. Chemistry, Ph.D, SET  
**Mr. Ankit Kumar** : M.Sc. Chemistry

## DEPARTMENT OF FORESTRY

**Prof. (Dr.) Sas Biswas** : M.Sc. Botany, Ph.D.  
**Dr. Sandhya Goswami** : M.Sc. (Ag.) Agroforestry, Ph.D., NET  
**Dr. A. K. Uniyal** : M.Sc. Botany, Ph.D. Forestry  
**Dr. Vikaspal Singh** : M.Sc. Forestry, Ph.D., NET  
**Mr. Manish Kumar** : M.Sc. Forestry, NET  
**Dr. Prabhakar Manori** : M.Sc. Forestry, Ph.D., NET  
**Mr. Anil Kumar Kewat** : M.Sc. Forestry, NET, Ph.D. (Pursuing)

## DEPARTMENT OF MICROBIOLOGY

**Prof. (Dr.) Shailja Pant** : M.Sc. Microbiology, Post Graduate Diploma in Clinical Research, Ph.D.  
**Dr. A.K. Singh** : M.Sc. Microbiology, Ph.D.  
**Dr. Tripti Malik** : M.Sc. Microbiology, Ph.D., NET  
**Dr. Gauri Singh** : M.Sc. Microbiology, Ph.D., NET  
**Mr. Vijay Tewari** : M.Sc. Medical Lab Technology

## DEPARTMENT OF AGRICULTURE

**Prof. (Dr.) C.S. Pandey** : M.Sc. (Ag.) Agronomy, Ph.D., NET  
**Dr. Pradeep Mishra** : M.Sc. (Ag.) Agronomy, Ph.D.  
**Dr. Shalini Agrawal** : M.Sc. (Ag.) Animal Science, Ph.D. NET  
**Mr. Upendra Dwivedi** : M.Sc. (Ag.) Animal Husbandry  
**Mr. Shailendra Tiwari** : M.Sc.(Ag.) Seed Science & Technology  
**Mr. Anuj Gupta** : M.Sc. (Ag.) Genetics & Plant Breeding, NET  
**Dr. Manoj Kumar Bansala** : M.Sc. (Ag.) Animal Husbandry, Ph.D.  
**Dr. Virendra Kumar** : M.Sc. (Ag.) Agronomy, Ph.D., NET  
**Mr. Sachin Devlal** : M.Sc. Horticulture (Fruit Science)  
**Dr. Kanika Issar** : M.Sc. Horticulture (Post Harvest Technology), Ph.D.  
**Dr. Sanjay Kumar Agarwal** : M.Sc. Mathematics, Ph.D.  
**Dr. Naimish Kumar** : M.Sc. (Ag.) Plant Pathology, Ph.D. , NET  
**Dr. Sanyogita Chaudhary** : M.Sc. (Ag.) Agronomy, Ph.D.  
**Dr. Ankit Uniyal** : M.Sc. (Ag.) Entomology, Ph.D.  
**Dr. Maneesh Bhatt** : M.Sc. (Ag.) Soil Science, Ph.D., NET  
**Dr. Anamika Sajwan** : M.Sc. Horticulture (Floriculture), Ph.D., NET  
**Mr. Vijay Ratna Panwar** : M.Sc. Mathematics, B.Ed.  
**Mr. Arun Prakash** : M.Sc. Food Technology

## DEPARTMENT OF PHYSIOTHERAPY

**Dr. Deeptee Warikoo** : MPT (Musculoskeletal Disorders), PGDHA, PGDSFM, CMMT, CKTT  
**Dr. Vijay Gambhir** : MPT (Sports)  
**Dr. Keerty Mathur** : MPT (Musculoskeletal Disorders)  
**Dr. Ashish Dev Gera** : MPT (Sports)  
**Dr. Diksha Bhatt** : MPT (Musculoskeletal Disorders)  
**Dr. Chaitanya Kumar Tamang** : MPT (Sports Rehabilitation), BLS (AHA-Certified), FIFA  
**Dr. Rupali Gurung** : MPT (Neurology)  
**Dr. Deepak Yadav** : MPT (CardioPulmonary), CPRS, CDRS  
**Dr. Nidhi Rawat** : MPT (Neurology), PGDYO  
**Dr. Abhinav** : MPT (Sports Rehabilitation)  
**Dr. Sunil Bhatt** : MPT (Neurology)  
**Dr. Priyanka Gambhir** : MPT (Clinical Physio.)  
**Dr. Arti Anand Shrivastav** : MPT (Clinical Physio.)  
**Dr. Shaili Rawat** : BPT  
**Col. (Dr.) Rajiv Garg** : MS  
**Dr. Kapil Arora** : MBBS

## DEPARTMENT OF PSYCHOLOGY

**Er. Rohit Maithani** : M.A. Psychology, M.Tech. Biotechnology, GATE (Humanities - Psychology)  
**Ms. Samvedana Shukla** : M.A. Clinical Psychology, Ph.D. (Pursuing)

## DEPARTMENT OF MEDICAL LAB TECHNOLOGY

**Dr. V.C. Reddy** : MBBS, DCP (Pathology), MD (Pathology)

**Dr. Rashmi Chauhan** : M.Sc. Biochemistry, PGDCP-DT, Ph.D.

**Mr. Aditya Swarup** : M.Sc. MLT

**Mr. Ankit Johari** : M.Sc. Biochemistry , GATE CSIR-UGC NET

**Mr. Rajesh Kumar Jha** : M.Sc. Biochemistry

## DEPARTMENT OF PHYSICS

**Dr. Aasheesh Raturi** : M.Sc. Physics, Ph.D.

**Dr. Abhilasha** : M.Sc. Physics, Ph.D.

**Mr. Shantanu Ashima Gaur** : M.Sc. Physics

## DEPARTMENT OF COMMERCE

**Mrs. Rama Garg** : M.Com., CA (Inter)

**Dr. Prince** : M.Com, Ph.D., NET

**Dr. Renu Pandey** : M.Com, Ph.D.

## DEPARTMENT OF EDUCATION

**Dr. G.N. Sinha** : M.A. English, M.Ed., Ph.D., NET

**Dr. Shruti Sharma** : M.Com, M.Ed., M.Phil., Ph.D.

**Dr. Aditi Chauhan** : M.A. History, M.Ed., Ph.D.

**Dr. Himani Dangwal** : M.Sc. Chemistry, M.Ed., Ph.D.

**Dr. Rashmi Negi** : M.A. Sociology, M.A. History, M.A. Hindi, M.Ed., M.Phil, Ph.D.

**Mrs. Leena Verma** : M.Sc. Botany, M.Ed., M.Phil.

## DEPARTMENT OF PERFORMING ARTS

**Mrs. Jyoti Johar** : B.A., Diploma in Painting (Arts), Diploma in Stitching

**Mr. Sahaj Sangal** : B.A. Bharatnatyam, B.Ed.

**Mr. Yajat Panchal** : B.A. Classical Vocal

## DEPARTMENT OF RADIOLOGY

**Dr. B.N. Tripathi** : MD (Radiology)

**Mr. Pushpendra** : M.MRIT

**Ms. Pushpendri** : M.MRIT

## DEPARTMENT OF OPERATION THEATER TECHNOLOGY

**Dr. Sandeep Ahuja** : MS (General Surgery)

**Mr. Suraj Jaguri** : B.OTT

**Mr. Gautam Rawat** : B.OTT

**Mr. Girist Chandra Dabral** : B.OTT

## DEPARTMENT OF MANAGEMENT

**Dr. Tarun Nawani** : M.Com, Ph.D.

**Dr. Shreya Bhardwaj** : MBA (HR), Ph.D.

**Dr. Vivek Singh** : MBA (Agri. Business Management), Ph.D.

**Dr. Ankita Sharma** : MBA (Agri. Business Management), Ph.D.

**Mr. Saurabh Sharma** : MBA (Marketing), Ph.D. (Pursuing)

**Mrs. Ruchika Bhatnagar** : MBA (HR)

**Er. Anirudh Bhatt** : M.Tech Biotechnology, MBA (Marketing)

**Mr. Aman Pandit** : M.Com, LLB, MBA (Finance)

**Mr. Sudhir Bharti** : MBA (HR)

## DEPARTMENT OF COMPUTER SCIENCE

**Mr. Vipul Garg** : M.Sc., LLB., Ph.D. (Pursuing)

**Dr. Jagdish Chandra Purohit** : M.Sc. Statistics, MCA Ph.D.

**Mr. Manish Bhatt** : MCA

**Er. Vishal Warikoo** : M.Tech. Comp. Science & Engg.

**Mr. Mayank** : MCA



design  
YOUR  
own

## CURRICULUM

NEP 2020 Enabled College

So, what does that even mean? How will I do that?

I thought that syllabus for any  
higher education course is fixed, isn't it?

Well that is true, but this isn't about syllabus, it's about your curriculum - everything you might want to study so that it aids your growth. You can add multiple subjects to enhance your skills, understanding, values and much more! So instead of just one core subject (say - Biotechnology), you can design your curriculum to include additional subjects like genetics, modern languages, bioethics and bio-safety, and even photography or sports. All governed by a system of academic credits that will be deposited in your account at the ACADEMIC BANK OF CREDITS (ABC) for all courses and extracurricular activities you engage in. You are also able to utilize the Multiple Entries and Multiple Exits (ME-ME) system so as to traverse your academic journey at your own pace!

LEARN

to  
EARN

At DIBNS, we're revolutionizing education by offering a custom-designed curriculum that empowers students to become self-reliant, globally contributing individuals. Our focus is on teaching entrepreneurial and vocational skills, preparing you to be a job-creator instead of a job-seeker. Through our Mini Factories Ecosystem, students gain hands-on experience in production, business logistics, and marketing while creating their own products. Our Industrial & Institutional Collaborations ensure that your learning stays aligned with cutting-edge industry innovations, and our emphasis on Vocational Skills in every class ensures you're ready for the job market from day one. At DIBNS, learning is practical, real-world, and designed to build a future-ready skill set

**ALL YOU DO TO ENRICH YOURSELF COUNTS;  
WITH AN NEP 2020 POWERED COLLEGE.**

to read more visit : [www.dolphininstitute.ac.in](http://www.dolphininstitute.ac.in)

## KEY FEATURES

- All academic/extracurricular work is measured by **CREDITS**. You can earn credits by: fulfilling minimum required engagement hours AND passing your semester/yearly examinations. Also, your percentage does not determine the number of credits or whether you will get the credits. Percentage of marks you achieve in examinations only determines your overall grade.
- **1 SEMESTER** = minimum 90 working days OR 15 weeks (6 days per week of course- work) & **1 SUMMER TERM/INTERNSHIP** = 8 weeks during summer vacation.
- **ME-ME** = you can leave and rejoin your course anytime you like! You get ample time of total 7 years to complete the full duration of the programme.

- On acquiring designated minimum credits, you get awarded a **CERTIFICATE** if you exit after completing 1st year. A **DIPLOMA** if you exit after completing 2nd year. A **BACHELOR DEGREE** if you exit after completing 3rd year. A **BACHELOR'S HONOURS DEGREE** or a **BACHELOR'S HONOURS with RESEARCH DEGREE** after completion of 4th year.
- You can **SWITCH YOUR MAJOR** within the broad discipline, by end of 2nd semester (e.g. - from biotechnology to botany under life sciences). You also get ample time to explore additional courses throughout your academic journey.
- At Dolphin Institute, you will be able to take up **MOOCs (MASSIVE OPEN ONLINE COURSES)** up to a permissible limit to earn credits, if you choose, in place of choosing courses from the pre-existing **DIBNS** pool.

## UNDERSTANDING DIFFERENT COURSE TYPES

**CORE/MAJOR COURSES** : Your main area/programme of academic interest and study, for e.g. - Biotechnology. Courses, here, basically means a unit of the programme, like molecular biology and genetics and units studied in Biotechnology

**MINOR COURSES**: To help you broaden your understanding of the major course itself, for e.g. - With Biotechnology, you can opt for Enzymology, Biophysics, etc.

**MULTIDISCIPLINARY COURSES** : A subject that you have not studied in school, but want to learn its fundamentals for an enhanced intellectual experience. Say - basic concepts in lab techniques, web designing, e-commerce, etc.

**VOCATIONAL COURSES** : To explore additional job opportunities, different to your main occupation, by introducing you to courses on - Documentary film making, mobile app development, make-up artistry, event management, tally accounting, painting, choreography, creative writing, etc.

**ABILITY ENHANCEMENT COURSES (AEC)** : Mainly to focus on increasing your communication skills for better work efficiency, for e.g. - study of English, French, German or Spanish. Although it also can includes subjects like Personality Development.

**SKILL ENHANCEMENT COURSES (SEC)** : To help you gain additional skills in the field of your choice, for better employability, for e.g. - Stress Management, Basics of Internet, Radiation safety, etc.

**VALUE ADDED COURSES (VAC)** : To enhance your social values, fitness and global awareness, for courses on Yoga Education, History of Science, Cloud Computing, Financial Literacy, First-Aid and Happiness.

**RESEARCH PROJECT/DISSERTATION** : To obtain a Bachelor's Honours with Research Degree, you can choose to conduct a research study under the guidance of a faculty member in 7<sup>th</sup> and 8<sup>th</sup> semesters.

All programmes provide choice-based courses that allow students to prepare for diverse careers path. Syllabus OUTLINE given below enlists the main content/major courses of that programme. Minor/Vocational Courses differ for each subject, please refer to our website or download the course brochure for more information. Refer to the DIBNS course pool for listing of MDCs, AECs, VACs, & SECs.

## BASIC & ALLIED SCIENCES

<b>B.Sc. (Hons.) BIOTECHNOLOGY</b> <b>DURATION:</b> 4 years (ME-ME)   <b>SEATS:</b> 30 <b>ELIGIBILITY:</b> 12th PCB or PCM or equivalent from any state board/university with 45% marks.	<b>SYLLABUS OUTLINE:</b> Cell Biology & Genetics, Biochemistry & Metabolism, Environmental Science, Analytical Biological tools & Techniques, Cell & Tissue Culture, Microbiology, Immunology, Recombinant DNA Technology, Molecular Biology, IPR, Bio-Ethics, Bio-Safety, Bioinformatics, Chemistry, Botany, Zoology, Microbiology, & Food Tech.
<b>M.Sc. BIOTECHNOLOGY</b> <b>DURATION:</b> 2 years (ME-ME)   <b>SEATS:</b> 33 <b>ELIGIBILITY:</b> B.Sc. with CBZ or any other equivalent degree with minimum 45% marks.	<b>SYLLABUS OUTLINE :</b> Cell & Molecular Biology, Bio- Analytical Techniques, Biochemistry, Biostatistics, Immunology, Microbiology, Microbial Genetics, Enzymology & Enzyme Technology, Cell & Tissue Culture, Recombinant DNA Technology, Bioinformatics, Environmental Biotechnology, Fermentation & Bioprocess Technology, Research Methodology.
<b>B.Sc. (Hons.) MICROBIOLOGY</b> <b>DURATION:</b> 4 years (ME-ME)   <b>SEATS:</b> 30 <b>ELIGIBILITY:</b> B.Sc. with CBZ or any other equivalent degree with minimum 45% marks.	<b>SYLLABUS OUTLINE:</b> Introduction to Microbiology, Systematic Bacteriology, Fundamentals of biochemistry, Food and Dairy Microbiology, Soil and Agricultural Microbiology, Industrial Microbiology, Medical Microbiology, Immunology, IPR, Environmental Microbiology, Virology, RDT, Microbial Biotechnology, Microbial Genetics, Genomics and Proteomics, Bioprocess Technology, Biostats and Research Methodology.
<b>M.Sc. MICROBIOLOGY</b> <b>DURATION:</b> 2 years (ME-ME)   <b>SEATS:</b> 40 <b>ELIGIBILITY:</b> B.Sc. with CBZ or any other equivalent degree with minimum 45% marks.	<b>SYLLABUS OUTLINE :</b> General Microbiology, Biochemistry, Cell Biology, Biological Techniques, Molecular Biology Immunology, Environment and Agriculture Microbiology Food & Dairy Microbiology, Applied & Industrial Microbiology, Medical Microbiology, Biostatistics and Research Methodology, Recombinant DNA Technology, Microbial Product Formulation Sales, Marketing & Distribution of Microbial Products, AI in Microbiology-Pharma, Cosmetic and food industry.
<b>B.Sc. (Hons.) BOTANY</b> <b>DURATION:</b> 4 years (ME-ME)   <b>SEATS:</b> 30 <b>ELIGIBILITY:</b> 12th (PCB/PCM with Biology) or equivalent from any recognized board with minimum 45% marks.	<b>SYLLABUS OUTLINE:</b> Diversity of Lower Plants, Microbiology & Plant Pathology, Plant Physiology & Metabolism, Basic Laboratory & Field Skills in Plant Biology, Taxonomy of Flowering Plants, Plant Genetics, Plant Breeding & Biostatistics, Plant Anatomy & Embryology, Economic Botany, Cell & Molecular Biology, Ethnobotany, Plant Ecology & Phytogeography, Comparative Studies of Cryptogams, Comparative Studies of Phanerogams, Plant Biotechnology, Research Methodology, Chemistry, Botany, Zoology, Microbiology, & Food Tech.
<b>M.Sc. BOTANY</b> <b>DURATION:</b> 2 years (ME-ME)   <b>SEATS:</b> 40 <b>ELIGIBILITY:</b> B.Sc. with CBZ with minimum 45% marks in aggregate.	<b>SYLLABUS OUTLINE:</b> Mycology & Microbiology, Phycology & Bryology, Pteridology, Gymnosperms & Palaeobotany, Taxonomy & Diversity of Flowering Plants, Plant Development & Reproductive Biology, Resource Utilization, IPR & Ethnobotany, Cytogenetics & Molecular Biology, Plant Breeding & Biostatistics, Plant Physiology & Biochemistry, Ecology & Remote Sensing, Forest Ecology, Plant Health Management, Conservation Biology, Biotechnology & Genetic Engineering of Plants & Microbes, Environment Management With Reference to Western Himalaya, Seed Pathology.
<b>B.Sc. (Hons.) ZOOLOGY</b> <b>DURATION:</b> 4 years (ME-ME)   <b>SEATS:</b> 30 <b>ELIGIBILITY:</b> 12th (PCB) or equivalent from any state board with 45% marks.	<b>SYLLABUS OUTLINE :</b> Taxonomy of Chordates & Non- Chordates; Cell & Molecular Biology; Principles of Genetics; Fundamentals of Biochemistry; Evolutionary Biology; Animal Behavior; Conservation Biology; Immunology; Toxicology; Life Sustaining Systems; Animal Biotechnology & Microbiology.
<b>M.Sc. ZOOLOGY</b> <b>DURATION:</b> 2 years (ME-ME)   <b>SEATS:</b> 30 <b>ELIGIBILITY:</b> B.Sc. with CBZ with minimum 45% marks in aggregate.	<b>SYLLABUS OUTLINE :</b> Taxonomy, Animal Diversity: Nonchordata & Chordata, Evolution Biology, Developmental Biology, Fish Biology, Agriculture Entomology, Fishery Science, Methodology in Fishery Science, Entomology, Applied Entomology, Methodology in Entomology, Ecology, Wildlife, Parasitology, Genetics, Animal Physiology, Animal Behavior, instrumentation, Cell Biology, Molecular Biology, Toxicology, Elementary Biotechnology, Microbiology, Endocrinology, Biological Radiotracer Techniques, Biochemistry, Immunology, Computer Application & Biostatistics.
<b>B.Sc. (Hons.) PHYSICS</b> <b>DURATION:</b> 4 years (ME-ME)   <b>SEATS:</b> 30 <b>ELIGIBILITY:</b> 12th (PCM) or equivalent from any state board with 45% marks.	<b>SYLLABUS OUTLINE :</b> Mechanics & Properties of Matter; Wave & Oscillations; Thermodynamics; Optics; Electronics & Circuits; Classical Mechanics; Statistical Mechanics; Quantum Mechanics; Nuclear Physics; Electrodynamics; Computational Physics; Astrophysics.

## M.Sc. PHYSICS

**DURATION:** 2 years (ME-ME) | **SEATS:** 20

**ELIGIBILITY:** B.Sc. in PCM/PCB with minimum 45% marks in aggregate.

**SYLLABUS OUTLINE:** Mathematical Physics; Quantum Mechanics; Solid State Electronic Devices; Astrophysics & Electrodynamics; Solid State Physics; Statistical Mechanics; Advanced Quantum Mechanics; Physics of Nuclei & Particles; Atomic & Molecular Spectroscopy; Computational Physics.

## B.Sc. (Hons.) CHEMISTRY

**DURATION:** 4 years (ME-ME) | **SEATS:** 30

**ELIGIBILITY:** 12th with chemistry as one of the subject from any state board with 45% marks.

**SYLLABUS OUTLINE :** Atomic Structure, Chemical Bonding & General Organic Chemistry, Chemistry of 's' & 'p' Block Elements, Chemical Thermodynamics & Functional Organic Chemistry Aliphatic & Aromatic Hydrocarbons, Electrochemistry, Conductance & Solution, Quantum & Surface Chemistry, Chemistry of 'd' & 'f' Block Elements, States of Matter & Solid State Chemistry, Co-Ordination Chemistry, Stereochemistry & Reaction Mechanisms, Chemistry of Natural Products, Advance Organic Chemistry, General Principles of Metallurgy, Noble Gases & Acids & Bases, Chemical Equilibrium, Ionic Equilibrium, Phase Equilibrium & Chemical Kinetics.

## M.Sc. CHEMISTRY

**DURATION:** 2 years (ME-ME) | **SEATS:** 20

**ELIGIBILITY:** B.Sc. with CBZ/ PCM with 45% marks in aggregate.

**SYLLABUS OUTLINE:** Fundamentals Concepts in Inorganic Chemistry Stereo chemistry & Organic Reaction Dynamics Quantum Mechanics and Thermodynamics Spectroscopy & Group Theory Advance Inorganic Chemistry Organic Reactions Dynamics: Substitution & Pericyclic Reactions Advance Thermodynamics and Electrochemistry Spectroscopy & Separation Techniques Advance Spectral Techniques Organometallic Reagent and Organic Synthesis Disconnection approach and Photochemistry Food Chemistry and Adulteration Green Chemistry Fundamentals of Quality Control in Pharmaceuticals Bio-organic, Biophysical and Bio-inorganic Chemistry-I Environmental Chemistry Bioactive Natural Products Heterocyclic Chemistry Bio-organic, Biophysical and Bio-inorganic Chemistry-II Herbal Drug Technology

## B.Sc. (Hons.) PSYCHOLOGY

**DURATION:** 4 years (ME-ME) | **SEATS:** 60

**ELIGIBILITY:** 12th or equivalent in any stream from any state board with 45% marks.

**SYLLABUS OUTLINE:** Development of Psychological Thought; Basic Psychological Processes; Cognitive, Bio, Clinical, Social & Health Psychology; Counseling; Positive Psychology & Well Being; Psychology of Disability; Psychological Disorders; Rehabilitation Psychology.

## M.Sc. PHARMACEUTICAL CEMISTRY

**DURATION:** 2 years (ME-ME) | **SEATS:** 27

**ELIGIBILITY:** Bachelor's degree in any science course.

**SYLLABUS OUTLINE:** Quantitative Chemical Analysis, Analytical Techniques, Pharmacology, Stereochemistry & Reaction Mechanisms, Food Chemistry & Adulteration, Drug Dosage & Delivery System, Advance Analytical Techniques, Medicinal Chemistry, Chemistry of Natural Products, Drug Regulatory Affairs, Drug Discovery Development, Herbal Drug Technology, Quality Assurance & Quality Control in Pharmaceuticals Project.

## M.Sc. BIOCHEMISTRY

**DURATION:** 2 years (ME-ME) | **SEATS:** 30

**ELIGIBILITY:** B.Sc. in CBZ, PCM or any equivalent degree like Biotech., MLT, Biochem., Microbiology, Genetics, with minimum 50% marks.

**SYLLABUS OUTLINE:** Organic Chemistry, Biomolecules, Bioenergetics, intermediary Metabolism, Enzymology, Biochemical & Biophysical Techniques, Plant Biochemistry, Microbiology, Molecular Biology, Genetic Engineering, Clinical Biochemistry, Immunology, Biotechnology, Biostatistics, Bioinformatics.

## PARAMEDICAL SCIENCES

### B.Sc. MEDICAL LAB TECHNOLOGY

**DURATION:** 4 years | **SEATS:** 50

**ELIGIBILITY:** 12th (PCB/PCM) or equivalent from any recognized state board or university with 45% marks.

**SYLLABUS OUTLINE:** Human Anatomy & Physiology, Pathology, Medical Microbiology, Clinical Biochemistry, Clinical Hematology, Histopathology, Preventive Medicine & Health Care, Medical Mycology, Clinical Virology, Immunohematology, Blood Banking, Biostatistics, Computer & Lab informatics. After completion of 3rd Year; one year internship in a hospital or diagnostic lab is mandatory.

### M.Sc. MEDICAL LAB TECHNOLOGY

**DURATION:** 2 years | **SEATS:** 20

**ELIGIBILITY:** B.Sc. MLT or Medical Microbiology or Nursing, or M.Sc. in Biological Sciences with minimum 50% marks in aggregate.

**SYLLABUS OUTLINE :** Good Laboratory Practice, Handling of Basic Laboratory Equipments, Clinical Pathology, Hematology, Blood Banking, Medical Microbiology, Diagnostic Serology, Clinical Biochemistry, Histopathology, Cytology, Clinical Virology, Clinical Parasitology, Clinical Mycology, Immunology, Hospital Management & Organization, Biostatistics & Computer Applications.

### B.Sc. MEDICAL MICROBIOLOGY

**DURATION:** 4 years | **SEATS:** 30

**ELIGIBILITY:** 12th (PCB/PCM) with 45% marks (bridge course of biology is compulsory in first semester for non-biology students).

**SYLLABUS OUTLINE:** Human Anatomy & Physiology; Biochemistry; Clinical & Applied Microbiology; Parasitology; Medical Microbiology; Mycology; Clinical Virology; Immunohematology; Blood Banking; Preventative & Social Medicine; Sales, Marketing & Distribution. After completion of 3rd year; one year internship in a hospital is mandatory.

### B.Sc. MEDICAL RADIO-IMAGING TECHNOLOGY

**DURATION:** 4 years | **SEATS:** 30

**ELIGIBILITY:** 12th (PCB/PCM) with 45% marks (bridge course of biology is compulsory in first semester for non-biology students).

**SYLLABUS OUTLINE:** Human Anatomy & Physiology, Radiation Physics, Fundamentals of medical Imaging, Regional Radiography, Equipments of Radio-diagnosis, General Biochemistry, Medical Law & Ethics, General Microbiology & Pathology, General Pharmacology, Conventional Radiographic Techniques, Radiation Protection, Basic and Advance of X-Ray, USG, CT scan, & MRI, Radiological Procedure, Interventional Radiology, Nuclear Medicine, Community Healthcare, Biostatics & Research Methodology, Radiotherapy.

## **B.Sc. (Hons.)**

### **OPERATION THEATRE TECHNOLOGY**

**DURATION:** 4 years | **SEATS:** 30

**ELIGIBILITY:** 12th (PCB/PCM) with 45% marks (bridge course of biology is compulsory in first semester for non-biology students).

**SYLLABUS OUTLINE :** Human Anatomy, Physiology; Principles & Techniques of Anesthesia; OT Technology; Basic Surgical Procedures; Para-Surgical Equipments; Basic intensive Care; Specialized Surgical Techniques; Advance Critical Care; CSSD Procedures.

## **PHYSIOTHERAPY**

### **Bachelor of PHYSIOTHERAPY BPT**

**DURATION:** 4 years + 6 month internship | **SEATS:** 80

**ELIGIBILITY:** 10+2 (PCB) or equivalent from a recognized board with a minimum of 50% marks.

**SYLLABUS OUTLINE :** Human Anatomy, Human Physiology, General, Psychology & Sociology, Biochemistry, Fundamentals of Exercise Therapy, Fundamentals of Electrotherapy, Actinotherapy, Biomechanics & Kinesiology, Pathology & Microbiology, Pharmacology, Clinical Orthopedics, Psychiatry & Neurosurgical Conditions, Clinical Cardiothoracic Diseases & Surgeries, General Medicine, General Surgery, P.T. in Orthopedics, P.T. in Cardiothoracic Diseases & Surgeries, P.T. in Neurological & Neurosurgical Conditions, Sports P.T. & Exercise Prescription, P.T. in Medical & Surgical Conditions, Biostatistics & Computer Application, Community P.T. & Rehabilitation.

### **Master of PHYSIOTHERAPY (Ortho./ Neuro./ Sports/Cardio\*) MPT**

**DURATION:** 2 years | **SEATS:** 50

**ELIGIBILITY:** Bachelor's degree in Physiotherapy (B.P.T.) with minimum 50% marks in aggregate.

**SYLLABUS OUTLINE :** ORTHOPEDICS - Basic Medical Science, Biomechanics & Kinesiology, Exercise Physiology, Exercise Therapy, Emergency Care, Musculoskeletal Disorders: Advance Physiotherapeutics, Educational Psychology, Rehabilitation Physical Medicine. Dissertation Based On Project Work. NEUROLOGY - Neurological Disorders: Advance Physiotherapeutics, Skill Acquisition & Refinement, Dissertation Based on Project Work. SPORTS - Physical Therapy in Sports: Fundamentals & Rehabilitation, Sports Fundamentals & Rehab: Advance, Dissertation Based on Project Work.

## **NATURAL SCIENCES**

### **B.Sc. (Hons.) AGRICULTURE**

**DURATION:** 4 years | **SEATS:** 220

**ELIGIBILITY:** 12th (PCB/PCM/AGRICULTURE) or equivalent from any recognized state board or university with 45% marks.

**SYLLABUS OUTLINE:** Agronomy; Horticulture; Plant Pathology; Entomology; Agricultural Economics; Extension Education; Genetics & Plant Breeding; Soil Science; Food Technology; Animal Husbandry; Basic Sciences; Humanities; Agricultural Engineering.

### **M.Sc. (Ag.) AGRONOMY**

**DURATION:** 2 years | **SEATS:** 40

**ELIGIBILITY:** B.Sc. in Agriculture with minimum 45% marks in aggregate.

**SYLLABUS OUTLINE :** Crop Ecology, Modern Techniques of Raising Field Crops, Medicinal & Aromatic Crops, Weed Management, Soil Science, Statistical Methods for Research in Field Crops, Irrigation Water Management & Seed Production Technology.

### **M.Sc.. HORTICULTURE (Fruit Science/Vegetable Science/ Floriculture & Landscaping)**

**DURATION:** 2 years | **SEATS:** 20

**ELIGIBILITY:** Bachelor's degree in Agriculture/Horticulture /Forestry with minimum aggregate 45% marks.

**SYLLABUS OUTLINE:** Plant Propagation & Nursery Management; Advances in Orchard Management; Systematic Horticulture; Advances in Pomology; Advances in Medicinal, Aromatic & Spices Crops; Statistical Methods & Experimental Designs; Advances in Temperate- Zone Pomology; Advances in Olericulture; Canopy Management in Fruits Crops; Biotechnology of Horticultural Crops; Advances in Breeding of Fruits & Plantation Crops; Biodiversity & Conservation of Horticultural Crops; Advances in Post- Harvest Technology & Management of Fruits & Vegetables; Protected Cultivation of Horticultural Crops; Advances in Floriculture & Landscaping.

### **M.Sc. FOOD TECHNOLOGY**

**DURATION:** 2 years | **SEATS:** 30

**Eligibility:** Bachelor's Degree from a recognized university with no less than 50% marks aggregate in either of the programs- B.Sc. Food Technology/Microbiology/ Biotech/ Agriculture/BSc-CBZ/Home Science.

**Syllabus Outline:** The M.Sc. in Food Technology is a postgraduate program designed to provide advanced knowledge in food science, processing, safety, and innovation. The curriculum integrates theoretical foundations with hands-on training to prepare graduates for careers in food production, quality control, research, and regulatory compliance.

### **B.Sc. (Hons.) FORESTRY**

**DURATION:** 4 years | **SEATS:** 60

**Eligibility:** 10+2 with PCM/PCMB/PCB/Agriculture (P-Physics, C-Chemistry, M-Mathematics, Biology) from a recognized board/university.

**Syllabus Outline:** Fundamental understanding of Forest Resources, Forest Botany, Silviculture, Agroforestry, Tree seed, Wood Anatomy, Forest Mensuration, Nursery & Entrepreneurship for certificate level. Further, in depth study of Silviculture, Wood Science, Forest Microbiology, Forest Soil, Forest Survey & Engineering, Wildlife, Forest Health, Arboriculture, Commercial Forestry, Logging & Ergonomics, Forest Policies, NTFPs, Tree improvement, Industrial Agroforestry, Forest Economics, RS&GIS, Tribology, Landscape Restoration & Forest Business management. Internship (with Wood-based-Industry/Forest department /Incubation centre/KVK etc.), hands-on-trainings, Communication Skills, Environmental Studies. Plantation forestry, Multi-functional agroforestry, High yielding short rotation forestry and Forest product development and utilization and Forest Resource Management (Elective courses).

## M.Sc. FORESTRY

**DURATION:** 2 years | **SEATS:** 30

**ELIGIBILITY:** B.Sc. Forestry (4 years programme)/B.Sc. (Hons.) Forestry with minimum 45% marks

**SYLLABUS OUTLINE:** Advanced & applied approach for Forest Biometry, Silvicultural Practices, Agroforestry System, General Statistical Methods & Computer Application, Intellectual Property & Its Management in Agriculture, Agriculture Research, Research Ethics & Rural Development Programmes, Tree and Shrubs for Agroforestry, Disaster management, Modern Nursery & Plantation Technology, Tree and Shrubs for Agroforestry, Agro-techniques of Medicinal and Aromatic Crops, Technical Writing & Communication Skills, Economics of Agroforestry System, Industrial Agroforestry, Pulp & Paper Technology, Nutrient and Weed Management in Production Forestry, Master's Research (Thesis).

## COMMERCE

### B.Com. (Hons.)

**DURATION:** 4 years (ME-ME) | **SEATS:** 60

**ELIGIBILITY:** 10+2 or equivalent in any stream from a recognized board with minimum 45% marks.

**SYLLABUS OUTLINE :** Financial Accounting; Income Tax Law & Practices; Cost Accounting; Principles of Management; Management Accounting; Principles of Auditing; Financial Management; E-Commerce; Company Law; Consumer Protection; Corporate Accounting; International Business; Human Resource Management; GST; Marketing Management; Project Management; Advanced Accounting, business law, Business environment.

### M.Com.

**DURATION:** 2 years (ME-ME) | **SEATS:** 20

**ELIGIBILITY:** B.Com with 40% marks in aggregate or B.A., B. Sc. with Mathematics OR Economics with minimum 50% marks in aggregate.

**SYLLABUS OUTLINE :** Corporate Financial Accounting; Management Principles & Practices; Business Environment; Managerial Economics; Computer Applications in Business; Business Communication. Financial Management; Marketing Management; Human Resource Management; Research Methods & Statistics; Management Accounting; Legal Aspects of Business; International Business; Management of Financial Services; Income Tax Laws & Practices; Consumer Behavior; Security Analysis; Portfolio Management; Project Planning & Evaluation; Marketing Communication; Insurance; Risk Management; International Financial Management; Marketing of Services; International Marketing.

## EDUCATION

### B.Ed.

**DURATION:** 2 years | **SEATS:** 50

**ELIGIBILITY:** UG/PG degree in science/arts/commerce from any recognized university with 50% marks for general/ OBC, 45% marks for SC/ST, 55% marks for Engineering & Management graduates. Admissions on merit by entrance test & rules framed by the State Govt., HNGBU & NCTE.

**SYLLABUS OUTLINE :** Childhood & Growing up; Contemporary India & Education; Language across the curriculum; Understanding Disciplines & Subjects; Practicum (Reading & Reflecting on Texts); Learning & Teaching; Assessment for Learning; Pedagogy of Commerce, Mathematics, Civics, History, Economics, Geography, Home Science, Arts, Social Study; Computer Science, Hindi, English, Sanskrit, Physical Science, Biological Science, Gender, School & Society; Knowledge & Curriculum; Creating an Inclusive School; Environmental Education, Value Education; Vocational Education; Health & Physical Education; Peace Education; Guidance & Counseling; Distance Education. Internship of 2 weeks in 2nd sem. & 16 weeks in 3rd sem. Practicum - Drama & Art in Education; Critical Understanding of ICT; Understanding of Self.

## MANAGEMENT

### BBA

**DURATION:** 4 Years | **SEATS:** 120

**Eligibility:** Candidate shall have passed 10+2 any discipline or equivalent with a minimum 45% marks or equivalent grade in aggregate for General Category and relaxation in marks for reserved category candidates shall be given as per GOI/ University rules

**Syllabus outline:** The BBA programme core subjects include Principles of Management, Financial Accounting, Business Mathematics, Managerial Economics, Organizational Behavior, Marketing Management, Cost and Management Accounting, Operations Management, Human Resource Management, Financial Management, Strategic Management, Business Law, and Research Methodology.

### MBA

**DURATION:** 2 Years | **SEATS:** 60

**Eligibility:** A bachelor's degree of minimum 3 years after 10+2 examination, from a recognized board with a minimum aggregate 45% (40% for SC/ST/PWD)

**Syllabus outline:** The MBA program at Dolphin PG Institute covers core courses including Managerial Economics, Organizational Behaviour, Financial Reporting & Analysis, Quantitative Techniques, Marketing Management, Human Resource Management, and Operations & Supply Chain Management, Hospital Management.

## COMPUTER SCIENCE

### BCA

**DURATION:** 4 Years | **SEATS:** 120

**Eligibility:** Candidate shall have passed 10+2 or equivalent with a minimum 45% (Mathematics as a one subject at 12th) marks or equivalent grade in aggregate for General Category and relaxation in marks for reserved category candidates shall be given as per GOI/ University rules

**Syllabus outline:** The BCA program covers core subjects like Programming in C, Data Structures, Database Management Systems, Object-Oriented Programming with C++, Computer Networks, Software Engineering, Design and Analysis of Algorithms, Web Development, Artificial Intelligence, Data Analytics, Cloud Computing, Machine Learning, Cybersecurity, and Blockchain Technology.

## HUMANITIES

### BA (Hons.) Economics

**DURATION:** 4 years (ME-ME) | **SEATS:** 30

**Eligibility:** Candidate shall have passed 10+2 in any discipline or equivalent with a minimum 45% marks or equivalent grade in aggregate for General Category. Relaxation in marks for reserved category candidates shall be given as per GOI/University rules.

**Syllabus outline:** The BA Economics programme core subjects include Microeconomics, Macroeconomics, Mathematical Methods for Economics, Statistical Methods, Indian Economy, Development Economics, International Economics, Public Economics, Econometrics, Money and Banking, Environmental Economics, and Research Methodology.

### BA (Hons.) Political Science

**DURATION:** 4 years (ME-ME) | **SEATS:** 30

**Eligibility:** Candidate shall have passed 10+2 in any discipline or equivalent with a minimum 45% marks or equivalent grade in aggregate for General Category. Relaxation in marks for reserved category candidates shall be given as per GOI/University rules.

**Syllabus outline:** The BA Political Science programme core subjects include Political Theory, Indian Government and Politics, Comparative Politics, Public Administration, International Relations, Political Thought (Western and Indian), Indian Political Economy, Contemporary Global Politics, Human Rights and Gender Studies, and Research Methodology.

### BA (Hons.) Sociology

**DURATION:** 4 years (ME-ME) | **SEATS:** 30

**Eligibility:** Candidate shall have passed 10+2 in any discipline or equivalent with a minimum 45% marks or equivalent grade in aggregate for General Category. Relaxation in marks for reserved category candidates shall be given as per GOI/University rules.

**Syllabus outline:** The BA Sociology programme core subjects include Introduction to Sociology, Classical Sociological Thinkers, Indian Society, Social Institutions, Social Stratification, Sociological Theories, Research Methods, Sociology of Development, Sociology of Gender, Urban and Rural Sociology, and Social Change in India.

### BA (Hons.) History

**DURATION:** 4 years (ME-ME) | **SEATS:** 30

**Eligibility:** Candidate shall have passed 10+2 in any discipline or equivalent with a minimum 45% marks or equivalent grade in aggregate for General Category. Relaxation in marks for reserved category candidates shall be given as per GOI/University rules.

**Syllabus outline:** The BA History programme core subjects include Ancient Indian History, Medieval Indian History, Modern Indian History, World History, History of Europe, Colonialism and Nationalism, Indian National Movement, Historiography, Economic History of India, Cultural Heritage, and Research Methods in History.

### BA (Hons.) English

**DURATION:** 4 years (ME-ME) | **SEATS:** 30

**Eligibility:** Candidate shall have passed 10+2 in any discipline or equivalent with a minimum 45% marks or equivalent grade in aggregate for General Category. Relaxation in marks for reserved category candidates shall be given as per GOI/University rules.

**Syllabus outline:** The BA English programme core subjects include History of English Literature, British Poetry and Drama, Indian Writing in English, Literary Criticism and Theory, American Literature, Postcolonial Literature, World Literature, Gender Studies, English Language and Linguistics, Literary Forms and Genres, and Creative and Academic Writing.



# Clinical Training Through Hospital Attachments

To ensure hands-on learning and real- world exposure, Dolphin (PG) Institute has established formal attachments with reputed hospitals. These partnerships provide paramedical students with essential clinical training, enabling them to apply theoretical knowledge in practical healthcare settings and enhance their professional competencies.

**Dolphin Jankalyan Hospital, Dehradun**

**Synergy Institute of Medical Sciences, Dehradun**

**Aastha Hospital, Dehradun**

**Vohra Nursing Home, Dehradun**

**Premasukh Hospital, Dehradun**

**Archana Hospital, Dehradun**



## HOLISTIC DEVELOPMENT FOR RESPONSIBLE CITIZENSHIP

"By conducting NCC, NSS, Bharat Scouts & Guides, and Youth Red Cross units at Dolphin PG Institute, Dehradun, we are actively fostering the values of discipline, social responsibility, leadership, service, and patriotism among our students. These initiatives demonstrate our commitment to holistic education, character building, and preparing socially conscious and responsible citizens who contribute positively to society and the nation."

Extension & Outreach activities form an integral part of the academic framework at Dolphin, offering students opportunities to participate in awareness drives, rural outreach, health camps, environmental projects, and more.



## Excellence in Research

**Renowned for its academic rigor,  
Dolphin has established itself as a center of excellence in research.**

DIBNS has secured over ₹1.2 crore in research funding from premier agencies like DST, UCOST, USERC, DBT, and NMPB, including ₹31 lakhs post-autonomous status. With 27 patents and copyrights, recent innovations span green drug formulations, IoT-enabled healthcare solutions, and sustainable technologies-highlighting our commitment to interdisciplinary excellence.



# Patents & Copyrights

S. No.	Copyright/Patent Title(CR/P)	Name of Faculty, Designation and Dept. from DIBNS	Application/copyright / Patent No.	Year of Patent Published
1	A compound extracted from Ocimum gratissimum (Linn.) leaf extract and method of preparation thereof	Prof. Versha Parcha Dr. Deepak Kumar Dept of Pharmaceutical Chemistry& Chemistry	202411067839	2024
2	A cardioprotective compound extracted from Allium humile leaf extract and method of preparation thereof	Prof. Versha Parcha Dr. Deepak Kumar Dept of Pharmaceutical Chemistry& Chemistry	202411067079	2024
3	Kinetic sand rehabilitation protocol for proprioception training post ACL reconstruction. (CR)	Dr. Chaitanya K. Tamang (Asst. Prof.) Dept. of Physiotherapy	L- 150512/2024	2024
4	Qigong exercise protocol for conservative management of knee osteoarthritis(CR)	Dr. Chaitanya K. Tamang (Asst. Prof.) Dr. Deeptee Warikoo (Asso. Prof.) Keerty Mathur (Asst. Prof.) Richa Agarawal (Asst. Prof.) Diksha Gairola (Asst. Prof.) Nidhi Rawat (Asst. Prof.) Dept. of Physiotherapy	L- 149075/2024	2024
5	A formulation from essential oil & method of its preparation thereof (p)	Prof(Dr) Versha Parcha  Dr Deepak kumar Dept of Pharmaceutical Chemistry& Chemistry	202411028069	2024
6	Herbal composition having antihyperlipidemic activity and method for preparation thereof(p)	Dr Deepak kumar	202311055628 published on	2023
		Prof(dr) Versha Parcha Dept of Pharmaceutical Chemistry& Chemistry		
7	Machine learning based approach to predict the role of linear algebra and its applications in health care monitoring(p)	Dr.Sanjay Kumar Agrawal Associate Professor Dept of Horticulture	No.202241075957 A	2023
8	System for implementation of plastic bricks using Zig Bee and Wi Fi(P)	Dr D.K bhardwaj Assoc. Professor Dept of Zoology	202311028149 A	2023
9	IOTEnabled body posture correction shoulder bags(P)	Dr D.K bhardwaj Assoc.Professor Dept of Zoology	202311028148 A	2023
10	IOTBased real time monitoring of Ration(P)	Dr D.K bhardwaj Assoc.Professor Dept of Zoology	202311028147 A	2023
11	IOT Integrated Fog navigation system for vehicle(P)	Dr D.K bhardwaj Assoc.Professor Dept of Zoology	202311028146 A	2023
12	IOT based Alert system for river based water(P)	Dr D.K Bhardwaj Assoc.Professor Dept of Zoology	202311028145 A	2023
13	Automated tap using lora and iot(P)	Dr D.K Bhardwaj Assoc.Professor Dept of Zoology	202311028144 A	2023

14	Smart water tank management system(P)	Dr D.K Bhardwaj Assoc.Professor Dept of Zoology	202311028143 A	2023
15	System for a smart bicycle with safety features. (P)	Dr D.K Bhardwaj Assoc.Professor Dept of Zoology	202311028142 A	2023
16	Vision and RFID based automatic vehicle number plates and its occupants detection with real time monitoring(P)	Dr D.K Bhardwaj Assoc.Professor Dept of Zoology	202311028141 A	2023
17	IOT based rainwater harvesting system(P)	Dr D.K Bhardwaj Dept of Zoology	-202311028140 A	2023
18	Ant-diabetic formulation and method for preparation thereof' (p)	Prof Versha parcha Dr Amita Sati Dept of Pharmaceutical Chemistry& Chemistry	202311002172	2023
19	Anti-fungal formulation and method for preparation thereof 2/12/2022(p)	Prof Versha Parcha Dept of Pharmaceutical Chemistry& Chemistry	202211066597	2022
20	Method for formulating antidiabetic herbal composition (p)	Prof Versha Parcha Dept of Pharmaceutical Chemistry& Chemistry	202211063848	2022
21	<i>Satyrium nepalense</i> extract acting against cancer and method for Preparation thereof. (P)	Prof Versha Parcha Dept of Pharmaceutical Chemistry& Chemistry	202211039591 A	2022
22	Growth media composition for algae. (P)	Dr Manisha Nanda Assist Prof Manisha Nanda Dept. of Biotechnology	202211031917 A	2022
23	A process for microalgae harvesting and enhancing biomass productivity. (p)	Dr Manisha Nanda Assist Prof Manisha Nanda Dept. of Biotechnology	201811016783 A	2019
24	A method for preparation of nutrient source from food waste for cultivation of microalgae. (p)	Dr Manisha Nanda Assist Prof Manisha Nanda Dept. of Biotechnology	201811008547 A	2019
25	Column Reactor for The Synthesis of Cyclic Carbonate Of Polyols <i>Via</i> Carbamide Process(P)	Dr. Deepak Pant Assoc Prof Dept. of Chemistry	T.I(01)/TIFA/2012 (Patent No. 315898)	2018
26	Novel product selective degradation reactor. (p)	Dr. Deepak Pant Assoc Prof Dept. of Chemistry	Application Reference Number Ref No: #IPR/FA/1007	2018
27	A process for production of antifungal solution from cd waste.	Dr. Deepak Pant Assoc Prof Dept. of Chemistry	127/DEL/2011 (Patent No. 284026)	2017

## Government Funded Projects

S.No	Project Title	Year	Amount in Rs	Funding agency
1	<b>Stars Over Hills:</b> An Astronomy Outreach Programme for Remote Hilly School Communities of Uttarakhand Dr. Aasheesh Raturi Dept. of Physics	2025	DST, Government of India, New Delhi	₹11,84,000/-
2	Screening of Selected Native Himalayan Plant Extracts on Dengue Vector Aedes Species Dr. Beena Joshi Dept. of zoology	2024	USERC, Uttarakhand	₹1,50,000/-
3	Innovative Encapsulation of Essential Oils: A Sustainable approach to Alzheimer's Disease prevention and Management  Dr Deepak Kumar & Prof. (Dr.) Versha Parcha Dept of Pharmaceutical Chemistry & Chemistry	2024	371,000	Uttarakhand Science Education and Research Centre (USERC), Uttarakhand
4	Development of artificial intelligence (AI)- driven cognitive models for identification of commercial timber species of Uttarakhand. (UCS&T/R&D-52/23-24/25314)  PI- Dr Aasheesh Raturi, Department of Physics, DIBNS Co-PI Dr. Nikhil Rajput, Department of Computer Science, Ramanujan College, Delhi University	2024-2026	4,50,000	Uttarakhand Council of Science & Technology UCOST Dehradun
5	Bio-resources utilization of Uttarakhand by developing a Bio-plastic Dr Tripti Malik Assoc Prof Microbiology	2023-2025	3,04,000	Uttarakhand Science Education and Research Centre (USERC), Uttarakhand
6	Nutraceutical Potential, Nutritional Profile and Addition of Millets from Uttarakhand Region. Prof (Dr.) Shailja Pant Dept of Microbiology and Prof. (Dr.) Gyanendra Awasthi Dept of Biochemistry	2023-2024	350,000	Uttarakhand Science Education and Research Centre (USERC), Uttarakhand
7	Value Addition and Product Development from Wild Aromatic Plant Species of Uttarakhand Himalayas - Skill Development Programme to Create Your Own Aromatherapy Products  Prof. (Dr.) Versha Parcha & Dr. Deepak Kumar Assoc. Prof Dept of Pharmaceutical Chemistry & Chemistry	2022-2023	164,000	Uttarakhand Science Education and Research Centre (USERC), Uttarakhand
8	Insilico Analysis, Designing & Eco friendly synthesis of potential Parcha multi-targeted drug against Alzheimer's disease: A green approach  Prof. (Dr.) Versha Parcha Pharmaceutical Chemistry & Chemistry	2022-2023	2,41,000	Uttarakhand Science Education and Research Centre (USERC), Uttarakhand
9	Value addition in Processing and Marketing of essential oil extracted from Wild aromatic Plant Species of Uttarakhand Himalayas – Approach towards Sustainable Development of State  Prof. (Dr.) Versha Parcha & Dr. Deepak Kumar Assoc. Prof Dept of Pharmaceutical Chemistry & Chemistry	2019-2021	1,50,000	Uttarakhand Science Education and Research Centre (USERC) Uttarakhand

# FACILITIES

*Green & Eco-friendly campus amidst the scenic beauty of Dehradun's evergreen forests.*

*Gender equality and equity in our strictly anti-sexual harassment campus along with a fellowship forward environment through rigid anti-ragging and anti-narcotics policies.*

*State-of-art ICT enabled classrooms, technologically advanced labs, diverse experimental fields, and extensive research facilities - ensuring the best learning spaces.*

*Expansive library with 35.5 K+ books, 60+ journal subscriptions, INFLIBNET access with a digital wing, and 2 computer labs (120 systems) - providing you with the best reference spaces for all your academic needs.*

*A thriving cultural and sporting confluence with 2 auditoriums (400+ combined seating), outdoors plus indoor sporting complexes, and a permanent performance stage.*

*Attention towards your health with free OPDs, a stand-by ambulance, and affiliation with Dolphin Jankalyan Multispecialty Hospital.*

*A beautiful, hygienic, and conversation-encouraging cafeteria where your health and taste are the number one priority.*

*Richly flourished separate girls' and boys' hostels with every facility to make it a home away from home.*



LABORATORY



LIBRARY



HOSTEL



Co-Curricular Activities



NCC

# DIBNS

DEDICATED | INCLUSIVE | BRILLANT | NOVEL | SOCIETY

24 Years Of  
Academic  
Excellence

90% Outstanding  
Placement  
Success

250+ Connected  
Reputed  
Recruiters

10k+ Strong  
Alumni  
Network

## SOME OF OUR RECENT PLACEMENTS

**QC Officer Micro**  
Mapromax Lifesciences Pvt. Ltd.



**Mr. Ronaldo Debberma**

M.Sc. Biotechnology  
(2022-2024)

**Microbiologist**  
Windlass Health Care Ltd.



**Priti Verma**

M.Sc. Microbiology  
(2022-2024)

**Food Tech Executive**  
Wealth Foods & Beverages Pvt. Lt., Dehradun



**Mr. Ayush Singh**

M.Sc. Agronomy  
(2022-25)

**Officer in Quality Control**  
Unichem Laboratories Lt



**Ms. Sejal Thakur**

M. Sc. Pharmaceutical  
Chemistry  
(2022-2024)

**QA Executive Documentation**  
SS Vitran Healthcare PVT. LTD



**Mr. Manas Singh**

B. Sc. Agriculture  
(2020-2024)

## TOP RECRUITERS WHO BELIEVE IN US


Apply Now



www.dolphininstitute.ac.in



9927800045 / 46 / 47



Manduwala, Near Suddhowala,  
Chakrata Road, Dehradun 248007, Uttarakhand, India.