



# BHARATI VIDYAPEETH

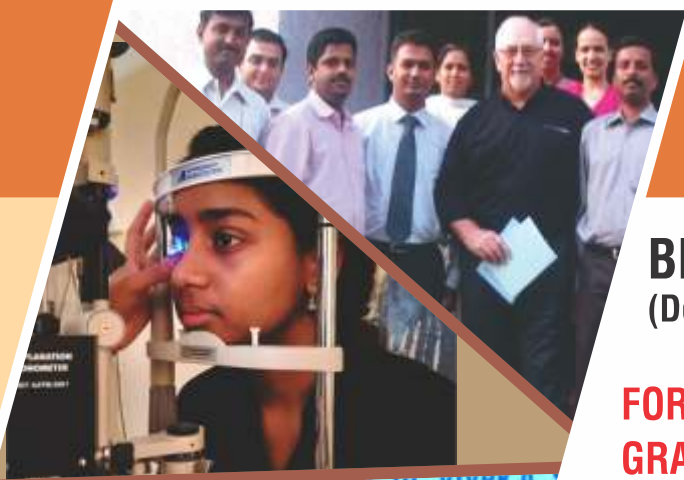
(Deemed to be University)

Pune, India.

- Accredited with 'A+' Grade (2017) by NAAC
- 'A' Grade University Status by MHRD, Govt. of India
- Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC
- Category-I (Deemed to be University Grade) by University Grants Commission
- Recognized under Section '12 B' of UGC Act (1956) by University Grants Commission
- Ranked among Top 100 Universities by NIRF 2023, Ministry of Education, Govt. of India

INFORMATION BROCHURE  
OF ENTRANCE TEST

**BV-BOPLET-2024**



**Bharati Vidyapeeth**  
(Deemed to be University) Pune, India

**FOR ADMISSION TO THE UNDER  
GRADUATE DEGREE PROGRAMME**

**Second Year of Bachelor of  
Clinical Optometry (B. Optom) At  
Bharati Vidyapeeth  
(Deemed to be University)  
School of Optometry, Pune  
Department of Optometry, Sangli**



## Important Dates B. Optometry LATERAL ENTRY (BV-BOPLET-2024)

Entrance Test	Last Date of Online Application	Date of Entrance Test	Date of Declaration of Merit list
B. Optometry LATERAL ENTRY entrance test	1st August 2024	5th August 2024	9th August 2024

**Date of Counselling and spot admission : 14th August 2024**

The Schedule and venue of counselling and on the spot admission will be notified at website [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in)

Fee structure for the year 2024-25 is mentioned in point no. 8 in this information brochure.

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### OUR INSTITUTE (For information)

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#### Pune

Bharati Vidyapeeth (Deemed to be University)  
**School of Optometry,**  
 College of Engineering for Women,  
 Ground Floor, Pune Satara Road,  
 Pune 411 043. (Tel. No. 020-24378270)  
 website: [optometry.bharatividyaapeeth.edu](http://optometry.bharatividyaapeeth.edu)  
 Email: [optometry@bharatividyaapeeth.edu](mailto:optometry@bharatividyaapeeth.edu)

#### Sangli

**Department of Optometry,**  
 Bharati Vidyapeeth (Deemed to be University)  
 Medical College & Hospital,  
 Sangli-Miraj Road, Sangli 416416  
 Tel. No. : 0233 - 2601592, 93, 94  
 website: <http://www.bvuniversity.edu.in>  
 Email: [optometry.sangli@bharatividyaapeeth.edu](mailto:optometry.sangli@bharatividyaapeeth.edu)

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Commencement of Classes

**16th August 2024**

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**Hon'ble Dr. Patangrao Kadam**

Founder : Bharati Vidyapeeth (1964)

FOUNDER - CHANCELLOR: Bharati Vidyapeeth (Deemed to be University)



**: Vision of the University :**

**To be a world class University for Social Transformation through Dynamic Education**



**Hon'ble Dr. Shivajirao Kadam**  
Chancellor,  
Bharati Vidyapeeth  
(Deemed to be University), Pune



**Hon'ble Dr. Vishwajit Kadam**  
Secretary,  
Bharati Vidyapeeth  
Pro Vice Chancellor,  
Bharati Vidyapeeth  
(Deemed to be University), Pune



**Hon'ble Prof. Dr. Vivek Saoji**  
Vice Chancellor,  
Bharati Vidyapeeth  
(Deemed to be University), Pune

## BHARATI VIDYAPEETH

### Nurturing Values Since 1964....

Established on 10th May 1964 by Visionary Leader Dr. Patangraoji Kadam, Bharati Vidyapeeth, the parent body of Bharati Vidyapeeth (Deemed to be University) is celebrating 60 glorious years in the education sector. Bharati Vidyapeeth today is widely acclaimed as one of the largest Educational Conglomerate in India imparting quality education right from pre-primary up to doctoral level through its 190+ institutions and 29 constituent units.

The ambit of Bharati Vidyapeeth institutions of higher education encompasses all professional disciplines which include the colleges of Medicine, Dentistry, Nursing, Audiology, Optometry, Physiotherapy, Ayurved, Homeopathy, Engineering, Architecture, Management, Law, Pharmacy, Hotel Management and Catering Technology, Environment Education, Physical Education, Health Management, Biotechnology etc.

Research today is at the center stage of every educational institution. Foreseeing it way back in 1986 Dr. Patangraoji Kadam founded two self-financed indigenous research institutes viz; R&D Centre for Pharmaceutical Sciences and Applied Chemistry; and Yashwantrao Chavan Institute of Social Science Studies and Research. Subsequently in 2001 International Research School for Health Affairs (IRSHA) was incorporated, which has collaboration with research partners from India and Abroad. These institutes have inculcated a research culture in the campuses of Bharati Vidyapeeth.

With a strong belief in social inclusion and living up to its mission statement 'Social Transformation through Dynamic Education', Bharati Vidyapeeth has spread its wings to provide educational opportunities to both the haves and have nots of the society by establishing campuses at Pune, New Delhi, Navi Mumbai, Kolhapur, Solapur, Karad, Satara and Panchgani.



## **BHARATI VIDYAPEETH (Deemed to be University) PUNE**

In recognition of excellence in the field of education, Ministry of Human Resources Development, Government of India on recommendation of UGC conferred the prestigious Deemed to be University status to 12 institutions of Bharati Vidyapeeth in 1996. This is how Bharati Vidyapeeth (Deemed to be University) came into existence.

Later another 17 institutions were added to the ambit of Bharati Vidyapeeth (Deemed to be University). Today, it has 29 constituent colleges and another 13 schools and departments under 12 faculties namely:

1. Medical Sciences
2. Dentistry
3. Ayurved
4. Homeopathy
5. Nursing
6. Engineering and Technology
7. Pharmaceutical Sciences
8. Management Studies
9. Arts, Social Sciences and Commerce
10. Sciences
11. Law
12. Interdisciplinary Studies

All the constituent colleges are known for its excellent infrastructure, experienced and caring faculty, contemporary curricula, ICT based teaching learning methodology, thrust on research and ample opportunities for co-curricular & extra-curricular activities.



**Medical Sciences**



**Dentistry**



**Ayurved**



**Homeopathy**



**Nursing**

## Constituent Units of Bharati Vidyapeeth (Deemed to be University)

1. BVDU Medical College, Pune.
2. BVDU Dental College & Hospital, Pune
3. BVDU College of Ayurved, Pune
4. BVDU Homoeopathic Medical College, Pune
5. BVDU College of Nursing, Pune
6. BVDU Yashwantrao Mohite College of Arts, Science & Commerce, Pune.
7. BVDU New Law College, Pune
8. BVDU Social Science Centre (M.S.W.), Pune
9. BVDU Yashwantrao Chavan Institute of Social Science Studies & Research, Pune.
10. BVDU Centre for Research & Development in Pharmaceutical Sciences & Applied Chemistry, Pune
11. BVDU College of Physical Education, Pune.
12. BVDU Institute of Environment Education & Research, Pune
13. BVDU Institute of Management & Entrepreneurship Development, Pune
14. BVDU Poona College of Pharmacy, Pune
15. BVDU College of Engineering, Pune
16. BVDU Interactive Research School in Health Affairs (IRSHA), Pune
17. BVDU Rajiv Gandhi Institute of Information Technology & Biotechnology, Pune
18. BVDU College of Architecture, Pune
19. BVDU Abhijit Kadam Institute of Management & Social Sciences, Solapur
20. BVDU Institute of Management, Kolhapur
21. BVDU Institute of Management & Rural Development Administration, Sangli
22. BVDU Institute of Management & Research, New Delhi
23. BVDU Institute of Hotel Management & Catering Technology, Pune
24. BVDU Yashwantrao Mohite Institute of Management, Karad
25. BVDU Medical College & Hospital, Sangli
26. BVDU Dental College & Hospital, Mumbai
27. BVDU Dental College & Hospital, Sangli
28. BVDU College of Nursing, Sangli
29. BVDU College of Nursing, Navi Mumbai



Pharmaceutical Sciences



Law



Engineering and Technology



Homeopathy



Management Studies





## **Distinctive Features of Bharati Vidyapeeth (Deemed to be University)**

### **This University:**

- The University offers 160+ programmes under 12 faculties.
- High quality all-around education with many students from all over India and 35 countries to pursue their studies.
- 24000+ students enrolled into various programmes offered by the University.
- Behind the reputation of the University are the solid credentials of accomplished and experienced 1700 + faculty members, imparting quality education.
- Excellent placement record for its students across faculties and has known industry endorsements for continuous industry institution interactions.
- Strong alumni network spread across the globe.
- Programmes are designed to enhance employability of students with focus on collaborative and experiential learning pedagogy.
- Entrepreneurship cell has been established to develop entrepreneurial skill and incubate innovative business ideas.
- University constantly encourages and facilitates its faculties to be actively engaged in academic research and publications besides their teaching assignments by establishing collaborative and interdisciplinary research links with industries and institutions around the world.
- All professional programmes are approved by respective Statutory Councils.
- As part of dissemination of knowledge, University organizes International and National Conferences, Seminars, Workshops etc, on recent and upcoming themes.
- Knowledge Resource Centre (Libraries) have an excellent collection of books, print journals, e-journals, and magazines etc. which are regularly being expanded by adding latest publications.
- Augmented infrastructural facilities including smart classrooms, tools for blended learning, laboratories equipped with latest technologies, free accessibility to Wi-Fi, lush green campuses, adequate recreational facilities, on campus residential accommodation etc.
- University is committed to engage for the welfare of the society through various schemes of outreach Programmes, field work and community engagement.

## University Achievements:

Accredited with 'A+' Grade (2017) by NAAC

'A' Grade University Status by MHRD, Govt. of India

Accredited (2004) & Reaccredited (2011) with 'A' Grade by NAAC

Category-I (Deemed to be University Grade) by University Grants Commission

Recognized under Section '12 B' of UGC Act (1956) by University Grants Commission

Ranked among Top 100 Universities by NIRF 2023, MHRD Govt. of India

## Other Achievements of the University:



### NBA

- College of Engineering have been accredited with National Board of Accreditation for its 3 UG Programmes
- B.Pharm programme of Poona College of Pharmacy has been accredited with NBA



### NABH

- Bharati Hospital and Research Centre of Medical College has undergone assessments for full NABH accreditation.



### NABL

- Hospital Laboratories in Pathology, Microbiology and Biochemistry have been accredited with NABL
- Centre for food testing Laboratory



### FDA Approval

- NABH accreditation and FDA approval for Hospital Blood Bank, Safe-I accreditation of the NABH for Infectious diseases was also received.
- Blood Bank
- Public Testing Laboratory of Poona College of Pharmacy, Pune



## Bharati Vidyapeeth (Deemed to be University)

### MEDICAL COLLEGE (PUNE)

Established in 1989, the college was recognised in 1994 by Medical Council of India. The College is recognised by General Medical Council, Great Britain. The college is listed in the World Health Organisation's Directory and the students of this college are eligible to appear for USMLE and PLAB examinations. The college also runs post graduate courses in several branches of medicine.

The college provides excellent educational facilities like well-equipped laboratories, demonstration rooms, and audio-visual equipments and lecture halls. The college library building is a fine specimen of architectural beauty and provides excellent collection of books and journals with separate computers and Internet facility.


College boasts of large faculty of experienced, dedicated and student oriented teachers. The faculty is known Nationally and Internationally, for its experience and research publications.

The college has 856 bedded Bharati Hospital and Research Centre attached to it for clinical teaching and experience for post graduate and under graduate students. It is a multi-storied building well equipped with diagnostic facilities in the form of laboratory and Radiology Department with state-of-the art equipments. The ICU, NICU and PICU beds providing critical care are well known and get referrals from all over Maharashtra. The college also has well equipped super specialty services like Neurosurgery, Plastic Surgery, Nephrology etc.

The college has so far hosted many National and International Conferences, Seminars, Workshops and provides excellent educational ethos for all-round development of the students.

From the year 1998-99 we have started a Bachelor's Degree and Postgraduate Degree Programme in Optometry (B.Optom.). The prerequisites for admission to this course are the same as those for MBBS and BDS. The duration of the course is of four years (including one year of internship) and the intake for this course is 35. Those who have a two-year recognised diploma in Optometry to their credit can be admitted to the third year of the course directly. M. Optom. course is of two years duration and 10 students are admitted each year. From 2006 we have started a course of Bachelor of Audiology and Speech Language Pathology. MASLP, Master of Audiology & Speech Language Pathology course was initiated from 2010.

The students come here with a dream and we help them for its maximum fulfillment.



BHARATI VIDYAPEETH DEEMED UNIVERSITY  
MEDICAL COLLEGE, PUNE  
भारती विद्यापीठ अभिमत विश्वविद्यालय  
वैद्यकीय महाविद्यालय, पुणे



### **Optometry - A Primary Health Care Profession**

Ophthalmic Optics (popularly known as Optometry) is a science, which deals with the structure, function and working of the human eye and specially in relation to Visual, Optical symptoms and Refractive errors and their correction primarily by Optical aids.

Optometry is an independent discipline accepted academically as such by the pattern of education it follows in most countries of the world. World Council of Optometry defines an Optometrist as a primary eye care professional, institutionally educated and clinically trained to examine, diagnose and correct the refractive errors of the Visual system by prescribing spectacles, Contact Lenses, Low Vision Aids and Vision therapy eye exercises to patients complaining of Visual symptoms.

The present scope of Optometric practice is far more than the historic determination of the refractive state of the eyes and the prescribing and dispensing of glasses. Today the practice of Optometry also includes the detection of ocular and related systemic diseases, the fitting of Contact Lenses and Low Vision Aids. It extends to public health-vision screening in school and industry - vision problems associated with driving and flying. It involves Optometric counseling of patients with partial sight and hereditary vision defects. Optometrists are concerned with vision care. Like physicians and dentists, Optometrists are primary eye care and health professionals.

Similar to the professional education in Pharmacy, which is required to run a chemist shop, a professional education in Ophthalmic Optics (Optometry) is necessary to efficiently manage any Optical trade including primary dispensing of spectacles. Like Physiotherapy and Orthopedics, Optometry works hand in hand with Ophthalmology in treatment of Visual disorders. An Optometrist has the following career opportunities

1. Can start his/her own Eye Clinic, Optical Shop, Lens manufacturing unit, etc.
2. Can work for eye testing, Contact lenses, squint exercises, etc. with Optician shops, eye doctors, Contact Lens and Ophthalmic lens industry, hospital eye departments, etc.
3. Can get jobs with Optician shops and hospitals in gulf countries.
4. Can do post graduation in Optometry and other related subjects.
5. Can take up teaching Optometry as a career with schools of Optometry.

### **Bharati Vidyapeeth (Deemed to be University), Medical College School of Optometry**

Established in July 1998, the School of Optometry has been constituted under the Faculty of General Surgery and is presently situated on ground floor of Medical College building, Bharati Vidyapeeth Karraj Dhankwadi campus, Pune 411043.

Bachelor in Clinical Optometry is a full time, total four-year course. The first 3 years teaching is followed by one year of internship for clinical training. Indian Optometric Association has approved bharati Vidyapeeth (Deemed to be University), Medical College School of Optometry and the Bachelor of Clinical Optometry course.

Since August 2000 bharati Vidyapeeth (Deemed to be University) Medical College School of Optometry has been affiliate member of World Council of Optometry. Some students who have passed out from this college have secured admissions in M. Optom. course in universities in Australia and England.

Since September 2003, bharati Vidyapeeth (Deemed to be University) Medical College School of Optometry is the first Indian Institute to start a two year post graduate **Masters of Optometry (M. Optom.)** course.

### The course : Bachelor of Clinical Optometry

The syllabus for the Bachelor of Clinical Optometry (B.Optom.) course aims at preparing an Optometrist who can practice independently. Admissions to the course will be at the level of 10 + 2 Science. The course will admit 40 students. The eligibility conditions for this is Std. XII with Physics, Chemistry, Biology or Mathematics subjects with minimum 45% marks.

This is a full time, total four-year course. The first 3 years teaching is followed by one year of internship for clinical and trade experience. The course lecture and practical timings are full day 9.00 a.m. to 5.00 p.m. on all weekdays. Students will be posted in Bharati Hospital Eye department, specialised Optical counters and Lens workshops associated for training by the University during the entire duration of the course.

The course has an integrated inter - disciplinary content with relevant aspects of General Anatomy & Physiology, Biochemistry, Pathology and Microbiology in the Basic Sciences and Physical, Geometrical, Dispensing, Visual and Optometric Optics in the Core courses. There will be practical training in Basic Science, Dispensing Optics and Clinical subjects. The University has tried to keep an excellent balance between basic preparation and clinical training so as to develop both professional judgment and scientific competence for the trained Optometrist.

In addition to Science, Medical and Optometry topics, there are some special courses on communication and Public relation, which are intended to augment skills of the optometrist in patient management. The courses on Accountancy and Computer programming are intended to impart instructions in various aspects of modern practice management.

The fourth and final year is of internship when the students are posted at various hospitals and speciality eye clinics and Optical establishments for clinical training and hands-on practice.



World council of Optometry recommended syllabus, training and examination pattern is being adopted. The American, British and Australian educators have accepted it and the students may be readily admitted to those universities for higher educational program leading to a Masters and Doctorate. The same syllabus is followed by the developing countries also and has been implemented at most centers that have come up in recent times - even in countries of Africa, Middle East and the Asia Pacific region.

Details regarding infrastructural facilities resources available and other activities conducted at the institute are available on its website.

### **Information about Master of Optometry (M.Optom.)**

#### **Objectives**

To create post graduate Optometry teachers with strong academic and research background who will help develop the science of Optometry. They will be responsible and helpful to -

1. Develop expertise in assessment, evaluation, planning and intervention in achieving eye care needs of the Indian society.
2. Actively participate in community optometry programs to prevent and eliminate avoidable blindness. Effectively organise and participate in vision screening eye camps to help control blindness.
3. Practice independently as a primary eye care practitioner and render eye care services for the benefit of the society.
4. Maintain collaborative relationship with members of other disciplines to improve health care.
5. Interest in life long learning for personal and professional advancement.

Many new Optometry colleges are coming up recently but unfortunately there are no sufficient optometry educators for B.Optometry program. One of the initial objective of this program was to produce Optometry educators who are trained in formal education. There is a lot of scope for research in Optometry. The Post graduate Optometry Students role in research helps to take the new challenges of the vision problems in Indian Society.



## MEDICAL COLLEGE & HOSPITAL, SANGLI

### DEPARTMENT OF OPTOMETRY, BHARATI VIDYAPEETH (DU) MEDICAL COLLEGE & HOSPITAL, SANGLI

The Department of Optometry at Bharati Vidyapeeth (Deemed to be University), Medical College & Hospital, Sangli was established in the year 2005. The department stands for excellence in patient care and academic training. The department is updated with technological advancements and has the latest OPD equipment for refraction such as Autorefractometer as well as diagnostic equipment's like NCT, Corneal Topography, Specular Microscope, OCT, Fundus Camera and Perimetry. In addition, the operation theater is equipped with the latest machines such as Infinity and Constellation vision systems and high end operating microscopes where anterior and posterior segment surgeries are performed regularly. The department conducts academic teaching programs such as lectures, seminars, group discussions where optics and refraction, basic sciences and clinical ophthalmology are discussed. There is a departmental library which is equipped with the latest books on optometry and clinical ophthalmology. Ophthalmic technicians and residents are also given hands on training at refraction, retinoscopy and routine OPD procedures. The department has also been conducting weekly eye campus at Turchi and Kadegaon, Vita thus screening patients and doing cataract surgeries for needy patients. In addition, the department has also done various research projects successfully, the Palus Project for Diabetic Retinopathy being one of the recent ongoing projects.

### THE COURSE : BACHELOR OF CLINICAL OPTOMETRY AT SANGLI

The syllabus for the Bachelor of Clinical Optometry (B-Optom) Course aim at preparing an Optometrist who can practice independently. Admission to the course will be at the level of 10 +2 Science. The course will admit **40 students**. The eligible conditions for this is Std. XII with Physics, Chemistry, Biology or Mathematics subjects with minimum 45% marks. This is a full time course total of three –years teaching and followed by one year of internship for clinical and trade experience. The course lecture and practical timings are full day 9.00 a.m. to 4.30 p.m. on all weekdays. Students will be posted in Bharati Hospital Eye Department, other eye hospitals, Specialized optical Counters and Lens Workshops associated for training by the University during the entire duration of the course.

The course has an integrated inter- disciplinary content with relevant aspects of general Anatomy & Physiology, Biochemistry Pathology, Microbiology in the Basic Sciences and Physical Geometrical, Dispensing Visual and Optometric Optics in the core courses. There will be practical training in Basic Science, Dispensing Optics and clinical subjects. The university has tried to keep an excellent balance between basic preparation and clinical training so as to develop both professional judgment and scientific competence for the trained Optometrist.

The fourth and final year is of internship when the students are posted at various hospitals and specialty eye clinic and Optical establishment for clinical training and hands on practice. Indian Optometric Association has approved the Bachelor of Clinical Optometry course and Bharati Vidyapeeth (Deemed to be University), Medical College School of Optometry. World Council of Optometry recommended syllabus; training and examination pattern is being adopted. The American, British and Australian educators have accepted it and the students may be readily admitted to those universities for higher educational program leading to a Masters and Doctorate.







### **BHARATI VIDYPEETH (DEEMED TO BE UNIVERSITY) MEDICAL COLLEGE SCHOOL OF OPTOMETRY**

Established in July 1998, the School of Optometry has been constituted under the faculty of general Surgery And is presently Situated on ground floor of Women's Engineering College Building, Bharati Vidyapeeth Katraj Dhankawadi Campus, Pune 411043. Bachelor of clinical optometry is a full time total four year course. The 1st three year teaching is followed by one year of internship for clinical training. Indian Optometric Association has approved BV(DU), School of optometry and the Bachelor of clinical optometry Course.

Since August 2000 Bharati Vidypeeth (Deemed to be University) Medical College, School of Optometry has been affiliate member of World Council of Optometry. Some Student who have passed out from this college have secured admission in M-Optom Course in universities in Australia and England. Since September 2003, BV(DU), School of Optometry is the first Indian institute to start a two year post graduate Master of Optometry (M.Optom) course

#### **THE COURSE: BACHELOR OF CLINICAL OPTOMETRY**

The Syllabus for the Bachelor of clinical Optometry (B-Optom) Course aims at preparing an Optometrist who can practice independently. Admission to the course will be at the level of 10 + 2 Science. The course will admit **40 students**. The eligible conditions for this is Std.XII with physics, Chemistry, Biology or Mathematics subjects 45% marks. This is a full time total four –years teaching is followed by one year of internship for clinical and trade experience. The course lecture and practical timings are full day 9.00a.m to 4.30 p.m. on all weekdays. Students will be posted in Bharati Hospital Eye Department, other eye hospitals, Specialized optical Counters and Lens Workshops associated for training by the University during the entire duration of the course.

The course has an integrated inter – disciplinary content with relevant aspects of general Anatomy & Physiology, Biochemistry, Pathology, Microbiology in the Basic Sciences and physical, Geometrical, Dispensing, Visual and Optometric Optics in the core courses. There will be practical training in Basic Science, Dispensing Optics and clinical subjects. The university has tried to keep an excellent balance between basic preparation and clinical training so as to develop both professional judgment and scientific competence for the trained Optometrist. In addition to Science, Medical and Optometry topics, there are some special courses on communication and public relation, which are intended to augment skills of the optometrist in patient management. The courses on Accountancy and Computer Programming are intended to impact instructions in various aspects of modern practice management.

The fourth & final Year is of internship when the students are posted at various hospitals and specialty eye clinic and Optical establishment for clinical training and hands on practice. Indian optometric Association has approved the Bachelor of Clinical Optometry course and Bharati Vidyapeeth (Deemed to be University), Medical College, School of Optometry. World council of Optometry recommended Syllabus; training and examination pattern is being adopted. The American, British and Australian educators have accepted it and the students may be readily admitted to those universities for higher educational program leading to a Masters and Doctorate. The same syllabus is followed by the developing countries also and has been implemented at most centers that have come up in recent times – even in countries of Africa, Middle East and the Asia Pacific region.

### **MISSION OF INSTITUTION**

To promote and provide improved eye care for people throughout the country by preparing the next generations of optometrists and vision researchers. To accomplish our Goal the faculty, staff and students will pursue excellence within our professional, graduate and patient care programs.

### **OBJECTIVES OF INSTITUTION**

- I Ensure a dynamic and state-of-the-art curriculum in field of optometry
- I Foster in students a high value on curiosity, creativity, and professional integrity
- I Provide state-of-the-art training and job opportunities
- I Provide public service to the community, profession and society
- I Attract excellent and dedicated Faculty /Staff
- I Awareness of optometry and eye care in the community

### **AIMS AND OBJECTIVES OF THE COURSE**

The Bachelor of Clinical Optometry course at Bharati Vidypeeth (Deemed to be University) Medical College, School of Optometry follows all the recommendation of Indian Optometric Association and world Council of Optometry.

The Experts keeping in view the following aims and objectives have designed this Degree Course . The Syllabus for the Bachelor of Clinical Optometry (B-Optom) course aims at preparing a Primary healthcare Professional , an "Optometrist" who can independently undertake =

1. Estimate refractive errors of the eye and prescribe corrective measures including spectacles , Contact Lenses Low Vision Aids and Vision Therapy.
2. Detect Pathological conditions of the visual system, which are deviation from Normal. Diagnose ocular and related systemic and neurological diseases and refer the cases to other medical professionals for detailed medical & surgical Management.
3. Design, manufacture, prescribe and fit all kinds of Optical aids including Spectacles, sunglasses, Ophthalmic Lenses, contact Lenses , Low Vision aids.
4. Examine Diagnose and prescribe treatment oculo-motility malfunctions like phorias, tropias and other types of strabismus (Squint) and Neuro-muscular anomalies.
5. Undertake public health Optometry Projects and vision screening eye camp in school, colleges, urbun Slums ,Rural areas and also practice occupational Optometry In Industries.
6. Public Education on ocular hygiene related nutritional & environmental Counseling.
7. Offer a helping hand and or efficiently manage and successfully run any Ophthalmic clinic, Eye department in hospitals, Optician shops ,Optical, Ophthalmic industry & trade.

### **PLACEMENT:**

The institute takes all round efforts in providing employment opportunities to students. The Students can use the Bharati Vidypeeth (Deemed to be University), Medical College, School of Optometry Alumni contact file.

Multi National Company: Bausch & Lomb , Carl Zeiss, Essilor, Johnson & Johnson, L & M, GKB(Calcutta), GKB Opto Labs, Titan Eye Plus ,Reliance.

Hospitals: L.V.Prasad Eye Institute Hyderabad, Narayana Netralaya, Centre for Sight , H.V.Desai Eye Hospital Pune, Rubby Hall Clinic Pune, Lilawati Hospital, Surya Eye Hospital Pune , Shankar Netralay Chennai

Colleges : Singapore Polytechnic College , Bausch & Lomb School(Hyderabad), Nagar School of Optometry Ahamadabad , Aditya Joyt Optometry College Mumbai, Manipal College of Allied Health Sciences.

Working in Countries : USA,UK, Kuwait, Bahrain, Botswana, Dubai, Saudi Arebia, Kenya.

Higher Education : USA, UK, New -Zealand, Australia

## PROCEDURE AND RULES FOR ADMISSION

### 1. GENERAL

**BV-BOPLET-2024 (B. Optometry LATERAL ENTRY)** is a ranking examination for admission to Second year B. Optometry under graduate programme for academic session 2024-25.

The information and the rules given here in are applicable for admissions to the second year of three years full time Bachelor of Clinical Optometry (B. Optometry Lateral Entry) under graduate degree programme of Bharati Vidyapeeth (Deemed to be University), Pune. The first 2 years teaching is followed by one year of internship for clinical training.

The seats will be filled on merit, based on their performance in "BV-BOPLET-2024 Entrance Test",

### INTAKE CAPACITY

Admission directly to 2nd year (Lateral Entry)

Name of Institute	No. of seats
School of Optometry (B. Optometry), Pune	15
Department of Optometry (B. Optometry), Sangli	10

**Note:** Out of the sanctioned intake, 15% seats are reserved under Foreign / NRI / P.I.O. / OCI/ Institutional Quota Merit Category. Candidates seeking admissions to the seats under Foreign / NRI / P.I.O. / OCI/ Institutional Quota Merit category will have to apply separately on a prescribed application form. The application form will be available at the office of **The Registrar, Bharati Vidyapeeth (Deemed to be University), Bharati Vidyapeeth Bhavan, L.B.S. Marg, Pune-30**. The form fee for this category is **Rs. 1,000/- (non refundable)**. Seats remaining vacant after allotment to Foreign / NRI / P.I.O./ OCI Students (based on Merit), will be allotted to Indian students under Institutional Quota on the basis of merit based on the marks obtained by them in B. Optometry Lateral Entry-2024. The last date for submission of form to this category at the above mentioned address is **1<sup>st</sup> August 2024 before 5.00 p.m.**

Only those candidates who would satisfy all the eligibility requirements as mentioned above will be considered eligible to appear in the home based online entrance test and for admission to the programme.

All the candidates seeking admissions will have to appear for Entrance Test **BV-BOPLET-2024** conducted by Bharati Vidyapeeth (Deemed to be University), Pune. All candidates will have to apply online & fill the prescribed application form at the website [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in)

### 2. ELIGIBILITY

1. Successfully completed a diploma course of minimum two years duration (after std. XII, 10+2 or equivalent (Higher Secondary – HSC) with Science) in Optometry, Ophthalmic techniques, Refraction, Orthoptics, Ophthalmic Assistance from an institute recognized by Indian Optometric Association and Bharati Vidyapeeth (Deemed to be University).
2. Successfully completed a Diploma course of minimum three years duration (after Std X (Secondary School Certificate – SSC) in Ophthalmic Techniques from an Institute recognized by Indian Optometric Association and Bharati Vidyapeeth (Deemed to be University). The candidate should have worked in an Ophthalmic Clinic OR Optical establishment for a minimum period of one year after completion of the three years diploma course.

He/she should produce a experience certificate from that Ophthalmic clinic or optical establishment giving details of work experience during that period.

3. The candidate must have secured minimum 40% marks in all subjects of the final qualifying examination for the diploma course.
4. The candidate should be over 19 years of age as on **31st December** of the year of the admission to the course.

A candidate who fails to fulfill the relevant eligibility requirements as mentioned above will not be considered eligible for admission to the B. Optometry Lateral Entry course even if he/she is placed in the merit list of the **BV-BOPLET-2024**. The candidates are advised not to submit their application forms for appearing for **BV-BOPLET-2024** if they do not fulfill any or all of the relevant eligibility requirements.

List of institute offering diploma programme approved for admission to **second year B.Optom**

No	Name & City	No	Name & City
1	Gandhi Eye Hospital, Aligarh	13	Eye Hospital & Research foundation Kota
2	Little Flower Hospital, Angamaly	14	Jan Kalyan Eye Hospital Lucknow
3	Regional Institute of Ophthalmology, Chennai	15	Pramila Vithaldas Polytechnique, Mumbai
4	Siloam Thomas Eye Hospital, Coimbtore	16	Municipal Eye Hospital, Mumbai
5	L.V.Prasad Eye Institute, Hyderabad	17	Venu Eye Hospital, New Delhi
6	Sarojini Devi Eye Institute Hyderabad	18	JMPT s School of optometry, Pune
7	Shree Vaishnav Polytechnique, Indore	19	Sitapur Eye Hospital, Sitapur
8	Dr.JLRS Eye Hospital, Kanpur	20	Christain Medical College (CMC), Vellore
9	Rabindra Bharti Univerisity, Kolkata	21	Laxmi Charitable Trust and Institute, Panvel, Mumbai
10	Venu Eye Institute, New Delhi	22	Institute of paramedical, Lucknow
11	Ajwani Eye Tech Centre, Bhopal	23	Sahai Hospital & Research Centre, Jaipur
12	RIO Medical College, Kolkata	24	Dept. of Community Ophthalmology Medical College Aurangabad.

A candidate who fails to fulfill the relevant eligibility requirements as mentioned above will not be considered eligible for admission to the **Second year B. Optometry** programme even if he/she is placed in the merit list of the **BV-BOPLET-2024**. The candidates are advised not to submit their application forms for appearing for **BV-BOPLET-2024** if they do not fulfill any or all of the relevant eligibility requirements.

### **3. BASIS OF SELECTION FOR ADMISSION**

- 3.1 A Candidate desirous of seeking admission to **Second year B. Optom.-2024** Programme should fulfill the minimum eligibility condition as stated in point no. 2 above. The final admission will be offered based solely on the merit obtained at the all India entrance test **BV-BOPLET-2024** conducted by Bharati Vidyapeeth (Deemed to be University), Pune.
- 3.2 He/She must have appeared for the **BV-BOPLET-2024** entrance Test, conducted by Bharati Vidyapeeth (Deemed to be University), Pune.
- 3.3 Mere appearance in the entrance test and inclusion of name in the merit list does not confer any automatic rights to secure admission to the programme offered by the Institute. The selection and admission to the programme is subject to fulfilling the eligibility criteria.
- 3.4 In case two or more candidates obtaining equal marks in the **BV-BOPLET-2024** the inter-se-merit of such candidates shall be determined in order of preference as under:
  - a) Candidates obtaining higher marks in Diploma examination, if equal, then
  - b) Candidates obtaining higher marks in 12th standard examination if equal, then

- c) Candidate obtaining higher total marks in subjects of Biology/Mathematics, Chemistry, Physics in the 12th standard qualifying examination. (Such a tie will be settled at the time of counselling), if equal
- d) Candidate obtaining higher percentage of total marks in the 10th standard examination, if equal
- e) In case of tie at this level, computerised random selection of candidate will be carried out.

#### **4. NATURE OF ENTRANCE TEST "BV-BOPLET-2024"**

All candidates desirous of taking admission for **Second year B. Optometry Programme** must appear for **BV-BOPLET-2024**

- 4.1 The **BV-BOPLET-2024** is an entrance test for admission to Second Year of Bachelor of Clinical Optometry (B.Optom) Programme. It will be of 50 marks and shall be of 60 minutes duration.

The entrance test **BV-BOPLET-2024** will consist of one question paper, set in English and will contain 50 multiple choice objective-type questions, in Optometry subjects. The syllabus will be of the first year of B.Optom course conducted at Bharati Vidyapeeth (Deemed to be University), Pune. It consists of 50 multiple choice questions, one mark each with four alternatives, with only one correct or most appropriate answer. One Mark will be awarded for each correct answer. There is no negative marking

**Details regarding general instructions, terms and conditions of the entrance test mode, schedule, entrance test centers, application procedure, Instructions regarding entrance test etc., are available on website. Please visit [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in) for more details.**

#### **5. ENTRANCE TEST FEE:**

##### **5.1 Entrance test fee: Rs 1,500 /-(Non Refundable)**

- 5.2 The entrance test fee shall be paid through payment gateway using internet banking mode or through debit/credit card/UPI. Service charges and other taxes for transaction as applicable by bank has to be paid by the applicant.
- 5.3 The entrance test fee, once paid, will not be refunded under any circumstances. Candidates who remain absent for the entrance test will forfeit their entrance test fee.

#### **6. DECLARATION OF RESULT:**

A single merit list will be declared for candidates registered for **BV-BOPLET-2024 (Second year B. Optometry Programme)** based on the entrance test (based on 50 marks), it will be declared & notified at the website. Please visit [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in) for more details. The combined merit list for all the institutes will be declared. Separate merit list will be prepared for regular category and Foreign/NRI/PIO/OCI/Institutional Quota Merit Category.

Candidate will have to login at the application portal to view their result. It is not possible to send individual invitation for counselling to the candidates. **It shall be the responsibility of the individual candidate to see their own merit number and appear for the counselling at the centre of his/her choice as per schedule will be notified at the website.**

#### **7. COUNSELING AND SPOT ADMISSIONS:**

- 7.1 The schedule and venue of counselling and on the spot admission session will be notified at the website. Please visit [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in) for more details.

**FAILURE TO REPORT FOR COUNSELLING ON THE SCHEDULED DATE AND TIME WILL RESULT IN INSTANTANEOUS CANCELLATION OF A CLAIM OF THE CANDIDATE TO THE SEAT.**

The allocation of the institute will be made based on the preference provided by the candidate while filling the online application form. The candidate must note that appearance for the entrance test and inclusion of name in the merit list does not necessarily mean that he/she will get admission to the institute & programme. The admission will depend upon the availability of seats to the particular programme and institute at the time of his counselling.

It shall be candidates responsibility to see the result entrance test and confirm their merit no. The candidate should remain present for counselling as per the schedule **notified at the website. [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in)**

Individual counselling letters are not going to be sent. The candidate should attend counselling & on the spot admissions on their own as per the schedule **notified at the website [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in)** The candidate should bring along with them proof of having appeared for the entrance test such as Admit Card or photo copy of application form / Demand Draft etc.

The candidate will be offered a seat in the institute of their choice and programme as per the combined merit list prepared by Bharati Vidyapeeth (Deemed to be University), Pune for all the institutes and all the programmes. The candidate will be called for counselling as per their merit number and will be offered a seat as per availability of the seat in the particular institute and particular programme.

If any candidate finds it impossible to be physically present for the counselling due to unavoidable circumstances, he/she may authorise any other responsible individual to represent him/her at the counselling. This representative must carry with him/her the letter of authorization in the format given in **ANNEXURE-I**, as well as all the documents listed in 7.2. **If the candidate or his representative fails to report for the counselling on the date and the time mentioned in the schedule of counseling, his/her claim for admission to any of the programme will be forfeited.** The choice of programme made by the candidates / his / her representative will be final and binding and will not be ordinarily altered later.

7.2 The following certificates in original along with self-attested two copies each of the same are to be submitted at the time of counselling and on the spot admission. If the candidate is admitted to any of the programme, these documents will be retained by the University till he/she completes the programme. If the candidate fails to produce all or any of the documents listed below, he/she will instantaneously forfeit his/her claim for a seat. at the time of counselling and on the spot admission.

- (a) For a Proof of date of Birth : SSC Certificate or School/College Leaving Certificate or Certificate of Domicile/Nationality Certificate
- (b) Statement of marks of X std examination.
- (c) Statement of marks of XII std examination.
- (d) Statement of marks for final year Diploma in Optometry
- (e) Original Diploma Certificate or Diploma completion certificate from Head of the Institute.
- (f) Caste Certificate (in case of candidates of SC/ST category)
- (g) Caste validity certificate issued by appropriate authority (in case of candidates of SC/ST category)
- (h) Migration Certificate (for students who joined a course after 12th).
- (i) Conduct and Character Certificate from a responsible person.
- (j) Certificate of Medical Fitness. (as per **Annexure III**)
- (k) An affidavit in the format as per **Annexure II**, signed by you and countersigned by your parent/guardian in the presence of Notary Public on a stamp paper.
- (l) Six recent passport-size photographs with your names written on backside.
- (m) The amount of fees and Hostel fees (in case you are admitted to Hostel.)
- (n) Authority letter-whenever applicable.
- (o) Information and affidavit an judicial stamp of Rs. 100/- to be filled by the student and the parents in relation to anti ragging measures as per the regulation.
- (p) The application should also be accompanied by a document in the form of school leaving certificate / transfer / migration / character certificate, which should include a report on behavioral pattern of applicant, so that the institution can thereafter keep intense watch upon a student who has a negative entry in this regard.

7.3 After scrutiny of their Certificates, the candidates are offered provisional admission according to their rank, availability of seats and payment of fees. Admissions to **Second year B. Optometry -2024** will be confirmed subject to

- i) Payment of fees in full on the day of admission round
- ii) Eligibility certificate from university

### **8.FEE STRUCTURE for 2024-2025 only :**

The fees to be paid for the **Second year B. Optometry -2024** programme at respective Institutes are given below

Name of Institute	Regular Merit Category	Institutional Quota Merit Category	Foreign/NRI/PIO/OCI Merit Category
School of Optometry, Pune	₹ 1,25,000	₹ 1,52,000	US\$ 3,675
Department of Optometry, Sangli	₹ 88,200	₹ 1,10,250	US\$ 3,600

**\*Note :** The above fees are per annum. The Fees shall be revised upwards @ 5% per annum.

#### **Mode of Payment of Fees shall be as given below**

The fee is to be paid either through online mode or Bank Draft of any Nationalized bank drawn in the name of either at :

1. "The Principal, School of Optometry, Pune payable at Pune"
2. "The Dean, B.V.D.U. Medical College & Hospital, Sangli.

**The details of payment through online mode will be informed.**

**The fees are to be paid in full during counselling and spot admission round subject to approval from university (competent authority)**

In case the candidate fails to remit the entire amount of fees, he/she is likely to lose his/her claim for admission.

At the time of admission a candidate has to pay library deposit. This deposit shall be refunded upon completion of the course.

If a candidate fails to confirm admission given to him/her, the same shall stand cancelled and the resultant vacancy will be offered to the next eligible candidate from the Computer centre based Entrance Test Merit list. However, if candidate is unable to report in person, he /she can depute a representative with an authority letter signed by the candidate (**ANNEXURE-I**, appended in this brochure) along with requisite documents under sec.7.2 above and Demand Draft of fees .

There are a few seats available in the hostel which will be allotted on first come first served basis.

Those who are desirous of getting admission to the hostel will be required to pay the entire amount of rent for the year as well as the mess charges for the entire academic year at the time of admission only. The details of hostel fees will be given in counselling letter. The payment for the hostels should be made by separate Demand Draft.

The date and commencement of the programme and detailed time table will be communicated to the candidate by the respective institute.

## 9. REFUND OF FEE:

The cancellation of admission and refund of fees will be as per the UGC guidelines issued by UGC from time to time.

## 10. CONDUCT AND DISCIPLINE:

If any student is found indulging in anti-national activities, or in activities that run contrary to the letter and spirit of the provisions of Acts and Laws enforced by the Government, or any activity that causes his/her behavior to be contrary to rules of discipline, will be liable to be expelled from the institute forthwith without any notice by the Principal of the institute.

If any of the statements made in application form or any information supplied by the candidate in connection with his/her admission is, at any time, found to be false or incorrect and willful suppression of facts, his/her admission will be cancelled forth with. The fees will be forfeited and he/she may be expelled from the institute by the Principal and prosecuted, if deemed necessary.

Each of the candidates seeking admission in the institute is required to give the following undertaking at the time of admission:-

- A) " I have read all the Rules of Admission for the current year and after fully understanding these rules, I have filled in this application form for admission for the current year.
- B) The information given by me in my application is true to the best of my knowledge and belief.
- C) I have not been debarred from appearing at any examination conducted by any Government constituted or Statuary autonomous examination authority in India.
- D) I fully understand that the Principal of the institute will have right to expel, rusticate me from the institute for any infringement of the Rules of good conduct and discipline in general and particularly the ones referred to above and the rules of good conduct and discipline prescribed by the institute / University and in the undertaking given above."

## 11. MISCELLANEOUS:

- 11.1 The candidates are informed that the medium of instruction, for all programmes is English.
- 11.2 At the time of seeking admissions, a candidate will be provisionally admitted to Programme at the Institute subject to the production of the Provisional Eligibility Certificate from the University.
- 11.3 The Institution shall have the right to satisfy about the conduct and character of a candidate by verifying antecedents of a candidate through the appropriate police-authority, before admitting him/her to the institute.
- 11.4 The Attention of the candidates is particularly invited to the provisions of rules regarding the eligibility of candidates for admission to the **Second year B. Optometry -2024** Programme. If at any stage it is found that a candidate is not eligible either for admission to **Second year B. Optometry -2024** Programme, his/her candidature and admission even if granted provisionally will be cancelled forthwith.
- 11.5 Differences of opinion and disputes arising in the interpretation and implementation of the clauses in this Brochure, if any, will be referred to the Vice-Chancellor of the Bharati Vidyapeeth (Deemed to be University), Pune and his decision shall be final and binding on all the concerned.



## BACHELOR OF CLINICAL OPTOMETRY SYLLABUS

### First Year Term -I

#### T101 HUMAN BIOLOGY

##### Lecture & Demonstration Topics

1. Organisation of the body Basic Chemistry and some facts about biochemistry – definitions, atoms, Biomolecules, Bioenergy, Biosynthesis.
2. Generalisations about body structure, terms used in describing body structure, Definitions and Terminology in Human Biology, Anatomy, Histology, etc.
3. Classification of body system and tissues, Directional terms, Planes of body, abdominal regions, anatomical positions.
4. Generalisations about body functions, Homeostasis of body temperature.
5. Cell structure – Cell differences, cell membranes, Protoplasm, Cytoplasm, organelles, Nucleus and special cell structures.
6. Cell Physiology – movement of substances through cell membranes, types of processes – Diffusion, Osmosis, Filtration, Physiological pumps, Phagocytosis and pinocytosis.
7. Tissues – Epithelial, Locations, functions, types and generalisations.  
Connective tissue – types, functions and characteristics; Muscle and Nervous tissues.
8. Membranes and glands – Definitions and types, mucous membranes, serous and cutaneous membranes; Skin – epidermis, dermis and accessory organs.
9. Glands – Composition and types.
10. Skeletal System – Bones and cartilage – Types and Functions, description of major bones in skull specially near the orbit, formation and growth of bone, divisions of skeleton, age changes in skeleton.
11. Skeletal system – Articulations – meaning and functions, kinds of joints, joint age changes and diseases.
12. Skeletal system – Muscles – general functions, skeletal muscles organs, weak places in abdominal wall, posture- meaning, how maintained, importance of body as whole.
13. Nervous system – Cells and nerve impulse conduction, definitions and various mechanisms.
14. Somatic nervous system – divisions of nervous system, brain and spinal cord, divisions and size and parts of brain, brain stem – structure, functions; Sleep, consciousness, memory.
15. Cranial nerves – structure and functions.
16. Somatic sensory and motor pathways. Reflexes – definitions and some somatic reflexes of clinical importance.
17. Autonomic nervous system – definitions, structure, general principles and functions.
18. ANS as a whole, Sympathetic and Parasympathetic divisions – functions, especially ocular.
19. Sense organs – Classifications, structure and functions, types of pain.
20. Eye, Auditory apparatus, olfactory sense organs, gustatory sense organs.
21. Endocrine system – meaning, prostaglandins (tissue hormones), how hormones act.
22. Pituitary gland – size location, component glands,

23. Thyroid gland – location, structure, hormone and effects.
24. Parathyroid – location, structure, hormone and effects.
25. Adrenal glands – location, structure, hormones and effects.
26. Islands of Langerhans – insulin, glucagon, pancreatic polypeptide.
27. Ovaries – Estrogen and progesterone, Testes – Testosterone.
28. Pineal gland and Thymus – brief description and significance.
29. Blood – Volume, component cells – structure and functions, formation and life span, blood groups, plasma and coagulation – purpose, mechanism, factors affecting blood clotting.
30. Anatomy of cardio-vascular system – Heart – Location, size, structure and functions, conduction system, ECG, control of heart rate, cardiac cycle.
31. Blood vessels – kinds, structure, functions, main blood vessels.
32. Blood circulation – definitions, control of arterial blood pressure.
33. Blood circulation – how to trace – methods of study and clinical importance - especially retinal circulation.
34. Blood pressure – clinical methods of measurement, significance in ocular diseases.
35. Pulse – definition, cause, feeling the pulse, measurement and clinical significance.
36. Lymphatic system – definitions, lymph and tissue fluid, lymphatics – formation and distribution, structure and functions, Lymph nodes – structure, locations and functions.
37. Thymus and Spleen – location, structure and functions.
38. Respiratory system – general outline of structure and functions of Nose, Pharynx, Larynx, Trachea, Bronchi, Lungs.
39. Physiology of respiration – pulmonary ventilation, volumes of air exchanged, types of breathing, external and internal respiration, Exchange of gases for Cornea even under closed eye conditions.
40. Digestive system – general outline of Structure, functions of buccal cavity, salivary glands, teeth, Pharynx, esophagus, stomach, small intestine, large intestine, peritoneum, Liver, Gallbladder, Pancreas.
41. Definition of digestion, purpose mechanical and chemical digestion; Absorption – definition and how accomplished.
42. Metabolism – Important generalisations – Outline of Carbohydrate, fat, protein metabolism.
43. Homeostasis of body temperature – Heat production and loss, heat dissipating and gaining mechanisms, control of body temperature and fever.
44. Urinary system – Kidneys – Size, shape, location, outline of structure, functions, influence on blood pressure.
45. Urinary system – Ureters, Bladder, Urethra - Outline of structure, location and functions.
46. Urine – Physical Characteristics, chemical composition, definitions, routine tests.
47. Fluid and electrolyte balance – general principles about fluid balance. Mechanisms that maintain homeostasis of fluid and electrolyte distribution, Significance of fluid and electrolyte balance in human crystalline lens and cornea - causes of opacities (Cataract).
48. Acid–Base balance – mechanisms that control pH of body fluids – meaning of pH and range of pH values – significance of tear pH and insertion of Contact Lenses, eye medications.

49. Reproduction of cells – Deoxyribonucleic acid (DNA), Mitosis, meiosis, Spermatogenesis, Oogenesis.
50. Male reproductive system – general outline of structures involved.
51. Female reproductive system – general outline of main and accessory structures involved. Recurring cycles Ovulation, menstruation – regulations, clinical significance, effect on Cornea. - Pregnancy and birth - breast - family planning.
52. Sexual reproduction – meiosis.
53. Genes chromosomes, Inheritance and human variations.
54. Mutations, Autosomal and sex linked inheritance.
55. Intelligence and human society.
56. Embryology – Meaning, steps in development of new individual.
57. Survey of embryology, Features of the embryo – age and length relationships.
58. General functioning of normal human body, age related changes.
59. Immune system – Major components – Lymphocytes, antibodies ( immunoglobulins), complement, properdin, interferon, conditions involving abnormalities of immune system, Transplant rejection, - Corneal transplant, etc. Major diseases - Cancer, AIDS.
60. Stress – definitions, development concept, mechanisms, stress and disease.
61. Stress syndrome, indicators of stress, Psychological stress.
62. Outline of the pathological processes -Inflammation, infection, edema, disease, Ulcer.

## **T102 BASIC BIOCHEMISTRY**

### **Lecture Topics**

1. Hormones basic concepts in metabolic regulation with examples, insulin.
2. Metabolism - General whole body metabolism (Carbohydrates, proteins, and lipids).
3. Carbohydrates - Properties & tests for Glucose; fructose; galactose; lactose; sucrose; starch and glycogen.
4. Proteins - Properties & tests for Amino acids, peptides, and proteins (general with a few important examples like glycine, tryptophan, glutathion, albumin).
5. Lipids - Properties & tests for General with important examples like cholesterol, phospholipids, fatty acids, etc.
6. Enzymes - Properties & tests for Properties, functions, co-enzymes, cofactor, apoenzyme, holo enzyme with examples like trypsin, pepsin, etc.
7. Vitamins - Properties & tests for General with emphasis on A, B2, C, E and Inositol.
8. Minerals - Properties & tests for Na, k, Ca, P, Fe and Se.
9. Techniques - Colloidal state, sol, gel, emulsion, dialysis, electrophoresis; pH buffers, mode of buffer action, molar and percentage solutions, photometry, colorimetry and spectrophotometry.
10. Clinical Biochemistry - Blood sugar, urea, creatinine and bilirubin significance of their estimation.
11. Ocular Biochemistry - Various aspects of the eye, viz., Tears, Cornea, Lens, Aqueous, Vitreous, Retina and pigment Rhodopsin. (The important chemicals in each and their roles).

## T103 PHYSICAL OPTICS AND PRINCIPLES OF LIGHTING

### Lecture Topics for Physical Optics

#### 1) NATURE OF LIGHT :

- a) Wave nature of light - shortcomings of wave theory.
- b) Quantum theory - dual nature of light.
- c) Mathematical representation of wave – S.H.M. Energy composition of S.H.M. in a straight line and at right angles.
- d) Hugen's Principle - Laws of reflection and refraction at spherical surfaces and lenses.
- e) The paraxial region.
- f) Ray and wave velocity.

#### 2) INTERFERENCE :

- a) Description of the phenomena - Young's experiments, coherent sources, phase and path difference, and intensity. Theory of interference fringes.
- b) Interference in thin films - interference due to reflected and transmitted light - Lloyd's single mirror.
- c) Colours of thin films - wedge shaped thin films - testing of plainness of surface.
- d) Newton's rings experiment - refractive index of liquid.
- e) Non-reflecting films.
- f) Visibility of fringes.

#### 3. DIFFRACTION :

- a) Single slit, qualitative and quantitative.
- b) Circular aperture.
- c) Double slit pattern.
- d) Multiple slits - grating.
- e) Reflection grating and the zone plate.

#### 4. POLARISATION :

- a) Polarization of transverse waves - light as transverse waves.
- b) Double refraction, principal plane, Nicol prism - plane polarisation.
- c) Circular, elliptic polarisation production, detection and behaviour.
- d) Optical activity - Fresnel's half shade polarimeter.
- e) Polarisation by selective absorption - dichorism.
- f) Basic principles of Holography.

**5. SPECTRUM :**

- a) Sources of spectrum, Bunsen - carbon - mercury - sodium.
- b) Emission and absorption spectra - classification - visible - ultra violet and infra red spectra - electromagnetic spectrum.

**6. SCATTERING :**

- a) Rayleigh's scattering.
- b) Raman scattering.

**7. Surface tension**

**8. Viscosity.**

**Lecture Topics for Principles of Lighting**

- 1. Visual Tasks = Factors affecting Visual tasks.
- 2. Modern theory on light and colour : synthesis of light.
- 3. Additive and subtractive synthesis of colour.
- 4. Light sources = Modern light sources, spectral energy, distribution, luminous efficiency, colour temperature, colour rendering.
- 5. Illumination = Luminous flux, candela, solid angle.
- 6. Illumination = Utilisation factor, depreciation factor.
- 7. Illumination laws.
- 8. Lighting installation = glare, luminaries, lighting fixtures, types of lighting.
- 9. Requirements for illuminations of workplace.
- 10. Typical lighting installations
- 11. Specialized aspects of illumination, endoscopes, headlamps, etc,
- 12. Photometry = measurement of illumination, photometers and filters.
- 13. Eye care and lighting – special care.

**PHYSICAL OPTICS PRACTICAL**

- 1. Determination of cardinal points of lens systems.
- 2. Fresnel's biprism experiment.
- 3. Grating - wavelength determination.
- 4. Newton's Rings - radius of curvature, Newton's Rings - refractive index of a liquid.
- 5. Reflection grating.
- 6. Resolving power of a telescope.
- 7. Spectroscope, determination of refractive index of prism.
- 8. Thickness of thin glass plate.
- 9. Use of telescopes in small observatory.

**T104 GEOMETRICAL OPTICS**

**Lecture Topics**

1. Photometry
  - a) Basic concepts and definitions in Photometry.
  - b) Reflection co-efficient, transmission co-efficient, powers - transmitted and reflected - Lumen Bodhun photometer.
2. Refraction Through Spherical Surfaces :
  - a) Introduction - Lens shapes, vergences and conversion factors. Divergence and convergence of wave fronts by spherical surfaces. How spherical lenses work - primary and secondary focal points - predictable rays.
  - b) Spherical refracting interfaces - convex, concave, derivation of vergence equation, sagittas, dioptric power - focal points, nodal points and plane. Symmetry points, imaging examples, lateral magnification.
  - c) Thin lens equation - lenses in contact separated. Two lens systems - reduced system - vergence effectivity equation.
  - d) Application - calculation of image points, dioptric powers in reduced systems using vergence techniques.
  - e) Thick lenses - front and back vertex powers - reduced system - dioptric power of equivalent lenses, cardinal points. Application - to calculate the equivalent dioptric power of thick meniscus lens, Plano convex, vertex powers, position of principal planes, dioptric powers using reduced systems. Matrix theory and lens matrices.
3. Aberrations :
  - a) Chromatic aberrations - dispersion without deviation and deviation without dispersion.
  - b) Dispersion by a prism - angular dispersion - dispersive power - dispersion without deviation and deviation without dispersion. Achromatic prism and lenses - prism diopters.
  - c) Monochromatic aberrations - first order and third order theory.
  - d) Spherical aberrations, coma, astigmatism, curvature, distortion - causes and the methods of minimising aberrations.
  - e) Tangent condition for elimination of distortion.
4. Fiber optics – introduction and uses, general applications in Ophthalmic & Optical industry.
5. Colour theories - trichromatic colour measurement.
6. Optical instruments - spectrometer - simple and compound microscope - telescope - Fresnel's biprism - Resolving power of optical instruments - Dispersive power - magnifying power of simple and compound microscope, telescope.
7. Application of vergence technique to calculate dioptric powers, separation distances in microscopes and telescopes.

**Geometrical Optics Lectures by Physics faculty.**

1. Rectilinear propagation, Shadows, Huygen's principle.
2. Reflection at plane mirrors, Multiple reflections.
3. Refraction, refractive index, velocity of light.
4. Vergence. Power of single surface. Ray tracing.
5. Thin lens Image formation Conjugate foci.
6. Lens aberrations – general.
7. Lens aberrations – correction.
8. Astigmatic pencils.
9. Chromatic aberrations of lenses and its correction.
10. Total internal reflection prism deviation.
11. Minimum and maximum deviation - achromatic prisms.
12. Spherical, Cylindrical and toric surfaces.
13. Aspheric surfaces and lenses.
14. Coaxial systems of spherical surfaces, Reduced vergence.
15. Coaxial systems of thin lenses.
16. Stops and apertures in lens systems.
17. Thick lenses and lens systems.
18. Thick lenses – advanced.
19. Dispersion Spectra.
20. Magnification and magnifiers.
21. Microscopes introductory.
22. Microscope design.
23. Telescopes – History and principles.
24. Telescopes – Designs and uses.
25. Holograms.

**GEOMETRIC OPTICS PRACTICAL**

1. Refraction through a slab and a curved surface.
2. Spherometer and lens gauge.
3. Surface power, Spherometer and ray tracing.
4. Apparent depth method for refractive index.
5. Critical angle - glasses and water.
6. Prism deviation and internal reflection.
7. Dispersion of prisms.
8. Lens system, effects of separations.

9. Chromatic aberrations of simple lens.
10. Magnifiers- measurements of effects.
11. Magnifying power of a simple and a compound microscope, telescope.
12. Microscope systems.

## **T105 DISPENSING OPTICS**

### **Lecture Topics**

#### **Ophthalmic Lenses Theory Basics (I)**

1. Introduction – Light, mirror, reflection, refraction & absorption.
2. Definitions – Prisms, Lenses, Frames, Spectacles.
3. Prisms – definition, Properties, Refraction through prisms, units.
4. Prisms – Uses of prisms, Nomenclature prisms.
5. Thickness difference and base - apex notation.
6. Sign Conventions.
7. Lenses – Definition, Terminology used to describe lenses.
8. Form of Lenses – Convex lenses & Concave lenses.
9. Refraction & image formation through convex and concave lenses.
10. Determination of focal length and dioptric power of lens.
11. Surface power and radius/ refractive index values.
12. Vertex distance and vertex power.
13. Effectivity and effective powers.
14. Lens shape, size, Types i.e. Spherical, Cylindrical, Sphero- cylindrical.
15. Toric surfaces and their significance, Toric lenses.
16. Sturm's conoid.
17. Neutralization of lenses.
18. Spherometer & sag formula.
19. Focimeter – power of lens & prisms.
20. Center marking & Axis marking by focimeter.
21. Simple Transposition.
22. Toric transposition.
23. Prismatic effect, Centeration, decentration, Prentice's rule.
24. Prismatic effect of sphero-cylinders and Plano cylinders.
25. Differential prismatic effects.
26. Decentration of lenses and edge thickness.
27. Decentration – examples.
28. Components and interpretation of spectacle prescription.



29. Prescription mistakes commonly made.
30. Prismatic effect of sphero-cylindrical lenses.
31. Aberrations in Ophthalmic lenses.
32. Tilt induced power in spectacle lenses.
33. Magnification in high plus lenses.
34. Minification in high minus lenses.

### **Ophthalmic Lenses Types, Manufacturing, Workshop Practice**

1. Prescription laboratory in action.
2. Instruments for making lenses.
3. Outline of lens surfacing and polishing.
4. Recording and ordering of Ophthalmic lenses.
5. Terminology used in Lens workshops.
6. Ophthalmic raw materials – history and general outline.
7. Manufacturing of Ophthalmic blanks – Glass.
8. Glass lenses – material types and characteristics.
9. Glass working – spherical surfaces.
10. Glass working – Toric and Aspherical.
11. ISI Standards for lenses.
12. Ophthalmic lens designs – best form lenses.
13. Design of high powered lenses.
14. Bifocal design and manufacture.
15. Faults in lenses – description.
16. Faults in lenses – detection.
17. Introduction of new manufacturing and edging machineries and technologies.

### **Spectacle Frames – theory basics (I)**

1. History of spectacles.
2. Nomenclature and terminology.
3. Types and Parts of spectacle frames.
4. Spectacle frames - sides and joints.
5. Spectacle frame bridge.
6. Shapes of spectacle frames – advantages and disadvantages.
7. Spectacle frame measurements and markings.
8. Market availability of frames.

## First Year Term -II

### T201 EYE ANATOMY & PHYSIOLOGY

#### Lecture Topics

By **Ophthalmologist faculty** recommended to be covered in 125 lectures.

1. Outline of Visual system - overall view.
2. Anatomical parts – terminology, anterior and posterior segments and chambers.
3. Adnexa and the orbit – constituent bones – properties, functions.
4. Orbital openings, contents and their relationships.
5. Three coats of the eyeball – Outer, Middle, Inner.
6. Conjunctiva – regions, layers, functions, significance.
7. Sclera – regions, layers, functions, significance.
8. Cornea – regions, layers, functions, significance.
9. Corneal metabolism and transparency.
10. Limbus – regions, layers, functions, significance.
11. Middle coat – Uvea - Choroid, Iris, Pupil.
12. Choroid – regions, layers, functions, significance.
13. Ciliary body, ciliary muscles, processes – layers, functions, significance.
14. Iris – regions, structure, functions, significance and variations of colour.
15. Pupil – pupillary actions, reflexes to light – significance in sleep, coma.
16. Anterior chamber – structure, depth significance, Anterior chamber angle – regions.
17. Aqueous humor – secretion, normal composition, drainage.
18. Intra-Ocular-Pressure – significance, normal features, age variations.
19. IOP – methods of measurements – outline and significance.
20. Crystalline Lens – structure, growth, function, significance.
21. Lens metabolism – ageing process and lenticular sclerosis.
22. Posterior chamber – contents, significance.
23. Vitreous humor – composition, anatomical relevance, function.
24. Retina - anatomical structure, layers – significance, distribution of rods and cones.
25. Different regions of retina and Retinal representation in the brain.
26. Rhodopsin Cycle and retinal metabolism – outline.
27. Retinal functions, the Electro-Retino-Gram (ERG) significance.
28. Blood supply to all parts of eye and adnexa.
29. Cranial nerve supply to the eye.
30. Motor nerves to the eye and adnexa.
31. Visual pathway – complete structure, significance.

32. Optic tract, Optic chiasma, Lateral geniculate body, Optic radiations, Area 17.
33. Visual pathway, central and cerebral connections, lesions of pathway and effects.
34. Lesions of the pupillary pathways.
35. Ocular embryology – general outline.
36. Time relationships in ocular embryology – review.
37. Common congenital abnormalities of the eye – factors responsible.
38. Post-natal growth of the eye.
39. Growth phenomena in general, bodily growth reflected in the eye.
40. Eye in old age – Physiological changes.

### **Lecture Topics**

#### **By Optometrist faculty**

*recommended to be covered in 75 lectures.*

1. Outline and review of Ocular structures and functions.
2. Visual system as a whole – significance.
3. Vision - general aspects of sensation.
4. Visual acuity, Visual perception - Binocular vision, stereoscopic vision, optical illusions.
5. Dark and light adaptation – significance and tests involved.
6. Colour Vision - theories, defects – methods of measurement and classification.
7. Visual Field – definition, significance, methods of examination – outline.
8. Visual field defects – types, description, significance.
9. Protective mechanisms in the eye.
10. Palpebral aperture, Eyelids – structure, functions.
11. Protective actions of the eyelids – blinking.
12. Lacrimal system – apparatus – secretion and drainage systems.
13. Tear Film – layers, functions, significance.
14. Muscles of eye – Extra Ocular and Intra Ocular.
15. Intra-Ocular-Muscles of the eye – Ciliary muscles and muscles of Iris.
16. Near Vision reflexes – accommodation, convergence, pupillary constriction.
17. The pupil reaction to near vision.
18. The pupil reflexes – light reactions.
19. Accommodation. – definition, classification.
20. Process and stimulus of accommodation.
21. Convergence – definitions, types.
22. Process and stimulus of convergence.
23. Extra-Ocular-Muscles – rectii, obliques, LPS.
24. EOM – anatomical structure, location, size, actions of individual muscles and movements of eyeball.
25. Eye as a refracting apparatus - Emmetropia and Ametropia, – definitions and outline only.

**Practical and Demonstration sessions**

Eye : Practical dissection of bull's OR goat's eye.

Orbit : Practical demonstration of orbital structure.

**T202 BASIC & OCULAR PHARMACOLOGY**

**Lecture Topics**

**1. GENERAL PHARMACOLOGY :**

- a) Mechanisms of drug action.
- b) Dose- response relationships
- c) Pharmacokinetics of drug absorption, distribution, bio-transformation, excretion and toxicity.
- e) Factors influencing drug metabolism or drug action.

**2. ACTION OF SPECIFIC AGENTS :**

- a) Depressants
- b) Anti-coagulants
- c) C.N.S. stimulants and antidepressants
- d) Diuretics and hypertensive agents
- e) Cardiovascular drugs
- f) Histamines and antihistamines
- g) Serotonin
- h) Prostaglandins

**3. PRINCIPLES OF OCULAR PHARMACOLOGY**

- a) Preparation and packaging of ophthalmic drugs.
- b) General principles of ocular pharmacology.
  - 1) Drug actions and effectiveness.
  - 2) Drug safety.
  - 3) Factors influencing the objectively demonstrated response.
  - 4) Ocular penetration.
  - 5) Routes of general and ocular drug administration.

**4. OPTOMETRIC DIAGNOSTIC DRUGS :**

- a) Optometric use of pharmaceuticals
  - 1) Classification of drug use.
  - 2) Topical ophthalmic drugs
  - 3) References and drug indices
  - 4) Hazards of ophthalmic drugs
  - 5) Surface active drugs
  - 6) Topical anesthetics
- b) Principles and classification of autonomic drugs
  - 1) Sympathomimetics
  - 2) Sympatholytics
  - 3) Parasympathomimetics
  - 4) Parasympatholytics
  - 5) Diagnostic use of autonomic drugs.
- c) Other drugs of Optometric interest
  - 1) Physical agents
  - 2) Germicides and sterilizing agents
  - 3) Over-the-counter drugs
  - 4) Dyes and stains

**5. OPHTHALMOLOGICAL DRUG USE :**

- a) Anti-glaucoma drugs
  - 1) Drugs for ocular hypertension.
  - 2) Drugs that enhance aqueous outflow.
  - 3) Inhibitors of aqueous secretion.
- b) Sulfonamides
- c) Antibiotics
- d) Corticosteroids
- e) Anaesthetics.
- f) Proteolytic enzymes.

## **T203 PATHOLOGY AND MICROBIOLOGY**

### **Pathology**

#### **Lecture Topics**

1. Inflammation and repair.
2. Infection in general.
3. Specific infections
  - a) Tuberculosis.
  - b) Leprosy
  - c) Syphilis
  - d) Fungal infection
  - e) Viral chlamydial infection
4. Neoplasia.
5. Haematology
  - a) Anaemia
  - b) Leukaemia
  - c) Bleeding disorders.
6. Circulatory disturbances
  - a) Thrombosis.
  - b) Infarction
  - c) Embolism
7. Clinical Pathology
  - a. Examination of urine.
  - b. Examination of blood smears.

### **Microbiology**

#### **Lecture Topics**

1. Introduction to Bacteria, Virus, Fungus and their differentiation.
2. Life cycles and special points about common Bacteria, Virus, Fungus.
3. Morphology and principles of cultivation of bacteria.
2. Sterilisation and disinfection generally used in laboratory and hospital practice.
3. Common bacterial infections of the eye.
4. Common fungal infections of the eye.
5. Common viral infections of eye.
6. Common parasitic infections of the eye.

## **T204 Ophthalmic Optics**

### **Lecture Topics**

1. Introduction - Vergence and vergence techniques revised. Lens power, prism power, and cylindrical lenses.
2. Gullstrand's schematic eyes, visual acuity, Stiles Crawford experiment and Binocular telescopes.
3. Emmetropia and Ametropia.
4. Correction of Spherical Ametropia.
5. Thin lens model of the eye - angular magnification - magnification of microscope, telescope. Spectacle and relative spectacle magnification. Aperture stops - entrance and exit pupils.
6. Applications - To calculate the angular magnification, dioptric power of spectacles, spectacle magnification, entrance and exit pupils, vertex distances.
7. Presbyopia
8. Aphakia.
9. Astigmatism - Applications - For e.g. to calculate the dioptric power, angular magnification of spectacles in aphakic, presbyopic patients. To calculate the position of line image in a spherocylindrical lens.
10. Laser Optics - basic laser principles - spontaneous and stimulated emission. Coherence - spatial, temporal. Laser pumping - population inversion optical feedback - laser resonator stability condition. Gas lasers, and solid lasers, Helium - neon laser - Argon - ion laser - ruby laser. Molecular laser - carbondioxide, Excimer laser. Semiconductor lasers. Lasers in medicine.
11. Holography.
12. Spatial distribution of optical information - modulation transfer functions - spatial filtering - applications.

### **Geometric Optics - II Practical**

1. Spectrometer - minimum deviation and narrow angled prism.
2. Focimeter and neutralisation of optical lenses.
3. Dispersive power of a prism.
4. Toric lens and meniscus lens.
5. Refractive index of various Optical lenses.







## IMPORTANT NOTICE

The students and the parents will have to submit the printouts of antiragging undertaking online on the following websites

website 1: [www.antiragging.in](http://www.antiragging.in)

2: [www.amanmovement.org](http://www.amanmovement.org)

This has to be submitted immediately after the conformation of the admission.

**Note :**

As per the directions of Hon'ble Supreme Court of India Order No. SLP(C) No. 24295/2004 and SLP No. 143656/2005, WP (C) No. 173/2006 and SLP(C) No. 24296-24299/2004 all the students are hereby informed the following.

"If any incidents of ragging comes to the notice of the authority, the concerned students shall be given liberty to explain and if his explanation is not found satisfactory the authority would expel him from the institution."

All the students should note the above directives from the Supreme Court.

Registrar  
Bharati Vidyapeeth  
(Deemed to be University)

## AUTHORIZATION FOR REPRESENTATIVE

I, ....., son /daughter of  
....., being unable to attend the counseling session for admission  
to the **Second year B. Optometry** programme at Bharati Vidyapeeth (Deemed to be University) on  
..... hereby authorize ..... son/daughter of  
.....

whose photograph is affixed below and who will sign as shown below, to represent me at the counseling and on-the-spot-admission. I hereby declare that the choice of programme made by this authorised representative will be irrevocable and that it will be final and binding on me. This authorised representative will present all the necessary documents, pay the appropriate fees and complete all the necessary formalities on my behalf.

Name of the candidate : \_\_\_\_\_

(IN CAPITAL LETTERS)

Seat No.(BV-BOPLET-2024 ): \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Reason for absence: \_\_\_\_\_

### Specimen signature of the Representative

A recent passport size  
photograph of the  
representative should  
be affixed here.

### Signature of the Candidate

A recent passport size  
photograph of the  
Candidate should  
be affixed here.

**AFFIDAVIT FORMAT**

**Annexure - II**

I, ..... son/daughter of ..... hereby solemnly affirm that the following statements made by me are true to the best of my knowledge and belief,

- A) I am a citizen of India
- B) I have completed 17 years of age/will be completing 17 years of age on .....
- C) I have studied in class 12th in India and have passed a qualifying examination in the subjects of Physics, Chemistry and Biology / Mathematics individually and have obtained ..... marks together in those subjects and I have also Passed in the subject of English.
- D) I have studied and understood the rules governing counseling, admission procedure, fee structure and agree to abide by these rules.
- E) If admitted to any of the Institutions of the Bharati Vidyapeeth (Deemed to be University), I will abide by all its rules and regulations, especially those regarding discipline, attendance, examinations and payment of fees. I understand that failure to comply with the rules and regulations will invite an appropriate disciplinary action from the institutional authorities.
- F) I will not involve myself in any action of ragging during the course of my education in this University. I understand that involvement in ragging is a cognizable offence and it will result in police action and would result into cancellation of my admission to the programme.

**Name of the candidate :**

**Date :**

**Place :**

**Signature of the candidate**

I, ..... the father/mother/guardian of ..... an applicant for admission to programme at Bharati Vidyapeeth (Deemed to be University), hereby solemnly affirm that all the above statements made by son/daughter/ward are true to the best of my knowledge and belief. I have read all the rules governing the process of entrance test, counseling, admission and fee structure of **BV-BOPLET-2024** and agree with them and will abide by the rules. I will be responsible for the payment of his/her fees on time and for his/her conduct.

**Name of the parent/guardian**

**Relationship to candidate**

**Date :**

**Address with Phone No. :**

**Signature of the parent/guardian**

**Medical Fitness**

A candidate must be medically fit to undergo the professional course applied for. The medical fitness must be certified by a Registered Medical Practitioner in the prescribed proforma, as given below on a Letterhead :

**Certificate of medical fitness**

This is to certify that I have conducted clinical examination of

**Mr./Ms.** .....

who is desirous of admission to Health Sciences courses.

He/She has not given any personal history of any disease incapacitating him/her to undergo the professional programme. Also, on clinical examination it has been found that he/she is medically fit to undergo the professional programme.

Certified further, that he/she has not shown any evidence of major defects of posture, locomotion, vision, hearing or any other systemic disorder.

Though, following deviations have been revealed, in my opinion, these are not impediments to pursue a career in Optometry

- 1. ....
- 2. ....
- 3. ....

**Address of the Registered Medical Practitioner      Signature :**

**Name :**

**Registration No. :**

**Seal of Registered Medical Practitioner**

**Date :    /    /20**

# Bharati Vidyapeeth, Pune

Bharati Vidyapeeth Bhavan, Lal Bahadur Shastri Marg, Pune - 411 030.  
Phone : (020) 24325701, 24322279 Fax : (020) 24339121



**Dr. PATANGRAO KADAM** M.A., LL.B., Ph.D.

● Founder-Chancellor, Bharati Vidyapeeth & Bharati Vidyapeeth (Deemed to be University), Pune

## AT A GLANCE

### EDUCATIONAL CAMPUSES :

● Pune ● Navi Mumbai ● Navi Delhi ● Panchgani (Satara) ● Sangli ● Karad ● Kolhapur ● Solapur ● Jawhar ● Jat

### BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY)

★ Accredited with 'A+' Grade (2017) by NAAC ★ ★ **Category-I** University Status by UGC ★

★ 'A' Grade University Status by MHRD, Govt. of India ★ ★ NIRF Ranking - **76** ★

● Medical College, Pune ● Dental College & Hospital, Pune ● College of Ayurved, Pune ● Homoeopathic Medical College, Pune ● College of Nursing, Pune ● Yashwantrao Mohite College of Arts, Science and Commerce, Pune ● New Law College, Pune ● Social Sciences Centre (M.S.W.), Pune ● Yashwantrao Chavan Institute of Social Science Studies & Research, Pune ● Research and Development Centre in Pharmaceutical Sciences & Applied Chemistry, Pune ● College of Physical Education, Pune ● Institute of Environment Education & Research, Pune ● College of Engineering, Pune ● Poona College of Pharmacy, Pune ● Institute of Management & Entrepreneurship Development, Pune. ● Rajiv Gandhi Institute of Information Technology & Bio-Technology, Pune ● Interactive Research School for Health Affairs, Pune. ● Medical College & Hospital, Sangli. ● Dental College & Hospital, Navi Mumbai. ● Institute of Management & Research, New Delhi; ● College of Architecture, Pune; ● Institute of Hotel Management & Catering Technology, Pune; ● Yashwantrao Mohite Institute of Management, Karad; ● Institute of Management, Kolhapur; ● Institute of Management & Rural Development Administration, Sangli. ● Abhijit Kadam Institute of Management and Social Sciences, Solapur. ● Dental College & Hospital, Sangli ● College of Nursing, Sangli ● College of Nursing, Navi Mumbai.

### FACULTIES / DISCIPLINES :

● Arts ● Science ● Commerce ● Engineering ● Medicine ● Dentistry ● Management ● Pharmaceutical Science ● Ayurved ● Homoeopathic ● Nursing ● Hotel Management ● Law ● Social Sciences ● Social Work ● Architecture ● Environmental Sciences ● Physical Education ● Kala (Art) ● Agriculture ● Biotechnology

### INSTITUTE BRANCHES :

● Research Institutes - 3 ● Colleges (including proposed 2) : 50 ● Technical Institutes : 8 ● Junior Colleges : 15 ● Primary Schools and High Schools (Marathi) : 40 ● Pre-Primary Schools and Primary Schools (English) : 20 ● Balvikas Mandir : 4 ● Public School : 1 ● Adivasi Vikas Ashram Shala : 1 ● I.T.I.(Girls) : 1 ● Other Sections : 17

### ASSOCIATE INSTITUTIONS :

● Bharati Vidyapeeth English-Maths Exam Department ● Bharati Vidyapeeth's Bharati Printing Press ● Bharati Sahakari Bank Ltd. ● Bharati Madhyawarti Sahakari Grahak Bhandar Ltd. ● Sonhira Sahakari Sakhar Karkhana Ltd., Wangi, Kadegaon, Dist. Sangli ● Sagarshwar Sahakari Soot Girni Ltd., Kadegaon, Dist. Sangli ● Krishna Verala Sahakari Soot Girni Ltd., Kundal-Palus, ● Sou. Vijaymala Patangrao Kadam Mahila Auodyogik Sahakari Santha, Kadegaon, Dist. Sangli ● Mahatma Gandhi Hospital & Research Centre ● Bharati Vidyapeeth Medical Foundation ● Bharati Hospital & Research Centre ● Eye Bank ● Mobile Health Care Unit & Ambulance ● Foundation for Rural Development ● Bharati Vidyapeeth Krida Pratishthan ● Bharati Vidyapeeth Kala Academy ● Sonhira Milk Producers and Allied Agro Co-op. Soc. Ltd., Kadegaon ● Sonhira Co-op. Poultry Society Ltd., Kadegaon, Dist. Sangli



MEDICAL COLLEGE, PUNE



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Phone No. : 020 24407131/132

Website : [www.bvuniversity.edu.in](http://www.bvuniversity.edu.in)

E-Mail : [cet@bharatividyaapeeth.edu](mailto:cet@bharatividyaapeeth.edu)