



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 UGC,
63rd Ranked among universities by NIRF-2020

B.TECH.- 2021

For Admission to the Bachelor of Technology Courses
At

Bharati Vidyapeeth

(Deemed to be University) Pune, India

COLLEGE OF ENGINEERING, PUNE-43

and

Department of Engineering & Technology, off Campus, Navi Mumbai

- 99th Ranking by NIRF,MHRD,GOI.
- Ranked 20th at National level & 2nd at West Zone level by AICTE Intershala.
- 13th Ranking by DATAQUEST-CMR.
- 17th Ranking by Times of India.
- 14th Ranking by Outlook.
- 12th Ranking by India Today.
- Platinum category in the AICTE-CII survey for industry institute interaction in 2018,19 & 2020.
- Programmes accredited by NBA , New Delhi.
- Ranked among top 50 Private Institute of India by ARIIA, Ministry of Education, GOI.

OUR INSTITUTE

Bharati Vidyapeeth

(Deemed to be University), Pune, India

College of Engineering, Pune

Pune Satara Road, Dhankawadi, Pune 43.

Tel. No. : 020 24107390/24107391, 397, 398, 399 Fax No. : 020 24372998

Website : bvucoepune.edu.in, Email : admissions@bvucoep.edu.in/info@bvucoep.edu.in

For Enquiry - Contact Tel. No. : 020-24407131/132/133/163 **Website** : www.bvuniversity.edu.in **E-Mail** : cet@bharatividyaapeeth.edu

Important Dates B.Tech. (ENGINEERING) - 2021

A)

Entrance Test	Last Date of Online Application	Date of Online Entrance Test	Date of Declaration of Merit list
B.Tech(Engineering)-2021 (Multi-date computer centre / home based online entrance test)	18th July 2021 2nd August 2021	28th July 2021 11th August 2021	Will be Notified. at www.bvuniversity.edu.in

B Counselling and on the spot admission

Date	Candidates called for Counselling	Time
Regular Category		
Will be Notified.	Merit No. 1 to 500	9.30 a.m. onwards
	Merit No. 501 to 1000	1.30 p.m. onwards
Will be Notified.	Merit No. 1001 to 1500	9.30 a.m. onwards
	Merit No. 1501 to 2000	1.30 p.m. onwards
Will be Notified.	Merit No. 2001 to 2500	9.30 a.m. onwards
	Merit No. 2501 to 3000	1.30 p.m. onwards

Foreign / NRI / PIO / OCI / Institutional Quota Merit Category		
Will be Notified.	Merit No. 001 to 140	10.00 a.m. onwards

Counseling location :

Bharati Vidyapeeth
(Deemed to be University),
Pune, India
College of Engineering, Pune
Pune Satara Road, Dhankawadi, Pune 43.
Tel. No. : 020 24107390/24107391
Fax No. : 020 24372998
Website : bvucoepune.edu.in
Email : admissions@bvucoep.edu.in/info@bvucoep.edu.in

C) Classes will commence on

: **Will be Notified.**

D) Principal will address newly admitted students on

: **Will be Notified.**

Entrance test fee along with completed online application form is Rs.1700/-(Non Refundable)

Our Inspiration



Dr. Patangrao Kadam

M.A., L.L.B., Ph.D.
Founder Chancellor, Bharati Vidyapeeth
(Deemed to be University), Pune



Prof. Dr. Shivajirao Kadam
Chancellor, Bharati Vidyapeeth
(Deemed to be University), Pune



Dr. Manikrao Salunkhe
Vice Chancellor, Bharati Vidyapeeth
(Deemed to be University), Pune



Dr. Vishwajeet Kadam
Secretary, Bharati Vidyapeeth, Pune
Pro-Vice Chancellor, Bharati Vidyapeeth
(Deemed to be University), Pune



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Bharati Vidyapeeth University
(Deemed to be University u/s 3 of the UGC Act, 1956)
Sadashiv Peth, Pune, Maharashtra as
Accredited
with CGPA of 3.53 on seven point scale
at A⁺ grade
valid up to March 27, 2024*

Date : March 28, 2017



DP Singh
Director

EC(SC)/23/A&A/36.3

National Institutional Ranking Framework- 2020
Ministry of Human Resource Development
Government of India



Maintaining its tradition in academic excellence, in the fifth consecutive year, Bharati Vidyapeeth (Deemed to be University), Pune and its constituent units have the reason to be proud for getting recognized and ranked among leading Universities and Institutes in India. Bharati Vidyapeeth is probably the only educational organization in the country to have 4 institutes having high NIRF ranking.

Poona College of Pharmacy, Pune
ranked 22nd at the national level
under Pharmacy category

Institute of Management and
Entrepreneurship Development (IMED),
Pune ranked 63rd at the national level
under Management category

Rajiv Gandhi Institute of IT and
Biotechnology, Pune, ranked 42nd at the
national level under College category

College of Engineering, Pune, ranked
99th at the national level under
Engineering category

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 63rd among Top 100 Universities by NIRF 2020, MHRD Govt. of India

Other Achievements of the University:



NBA

- College of Engineering has been accredited with National Board of Accreditation



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.



NABH & FDA Approval

- NABH accreditation and FDA approval for Hospital Blood Bank, Safe-I accreditation of the NABH for Infectious diseases was also received.

BHARATI VIDYAPEETH

Bharati Vidyapeeth, the parent body of Bharati Vidyapeeth (Deemed to be University) was established on 10th May 1964, by distinguished educationist Hon'ble Dr. Patangraoji Kadam, with a mission of promoting "Social Transformation Through Dynamic Education". Since its establishment, it has maintained the highest standards and has proliferated innovative practices in the education sector.

In the year 2013-14, Bharati Vidyapeeth celebrated the glorious Golden Jubilee year of imparting education and inculcating moral values among the youth. During the last 5 decades, Bharati Vidyapeeth has made astonishing strides in the field of education. Today it is one of the largest educational organizations in the country that imparts education right from the pre primary to the doctoral level. The spectrum of Bharati Vidyapeeth institutions of higher education spans all professional disciplines which include the colleges of Medicine, Dentistry, Nursing, Audiology, Optometry, Ayurved, Homeopathy, Engineering, Architecture, Management, Law, Pharmacy, Hotel Management and Catering Technology, Environment Education, Physical Education, Health Management, Biotechnology etc.

Research too is given a high priority in the university. To promote research activities and to create a research culture on its campuses, Bharati Vidyapeeth has established three self-financed specialized research institutes in the areas of Health Related Sciences, Pharmaceutical Science, and Social Sciences.

The colleges are affiliated to various universities including Bharati Vidyapeeth (Deemed to be University), University of Pune, University of Mumbai, Shivaji University Kolhapur and Indraprastha University, Delhi.

With an objective of making educational opportunities available to the deprived sections of the country, Bharati Vidyapeeth has established a large number of educational institutions in the rural areas. Bharati Vidyapeeth with a very moderate beginning in a short span of time has grown leaps and bounds having its major campuses in New Delhi, Navi Mumbai, Pune, Solapur, Kolhapur, Sangli, Karad, Satara and Panchgani.



Bharati Vidyapeeth (Deemed to be University) Pune

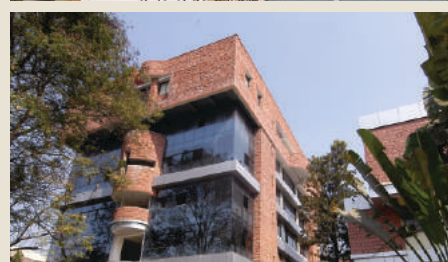
Bharati Vidyapeeth (Deemed to be University) came into existence in April, 1996, when the Ministry of Human Resource Development, Government of India, on the recommendations of UGC conferred the status of University on a cluster of 12 institutions of Bharati Vidyapeeth. In appreciation of the academic excellence achieved by the institutions through a committee of experts. Subsequent to that, the Government of India, vide its various notifications brought several other institutions of Bharati Vidyapeeth under the ambit of this University. As on today the University is having 29 constituent units conducting programmes in 12 different disciplines. Bharati Vidyapeeth (Deemed to be University) is one of the largest multi- faculty, multi-campus Deemed to be University in the country which has created a very laudable track record of academic achievements since its inception.

It offers a variety of programmes in 12 faculties namely:

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

The twenty nine constituent institutions of the University are located in eight different campuses; two in Pune, and one each in New Delhi, Navi Mumbai, Kolhapur, Solapur, Sangli and Karad.

The UGC has also recognized this University u/s12(B) of UGC Act 1956. This University is a Member of Association of Indian Universities and has been a Member of Association of Common wealth Universities.





The University is academically and intellectually very productive. Its faculty members have a very remarkable track record of research publications and patents. It has digitalized the libraries in its constituent units and has been making an extensive use of modern Information and Communication Technology in teaching, learning, research and also administration. The University attracts students from all over India and around 35 countries due to its academic reputation.

Distinctive Features of Bharati Vidyapeeth (Deemed to be University)

- Accredited with 'A+' Grade by NAAC in 2017 for seven years.
- 'A' Grade University status by MHRD, Govt. of India
- Category-I (Deemed to be University Grade) by University Grants Commission
- Recognised under Section '12 B' of UGC Act (1956) by University Grants Commission
- Ranked 63rd among top 100 Universities by NIRF 2020, MHRD, Govt. of India
- The University offers 250+ programmes under 12 faculties.
- High quality of all-around education has attracted many students from all over India and 35 countries to pursue their studies. Presently there are 23000+ 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 placements record for its students across faculties and has known industry endorsements.
- 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., in recent and upcoming themes.
- Knowledge Resource Centre (Libraries) has 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 and Field work.

Digital Initiatives at BVDU:

University's Information and Communication Technology Centre always acts proactively to meet the dynamic requirements of the University and its constituent units. Its contribution encompasses all spheres of the University – academics, research, administration and governance.

Some of these ICT Services are listed as below:



Skill Development Initiatives at BVDU:

भारती विद्यापीठ ग्रामीण विकास प्रतिष्ठान



Bharati Vidyapeeth College of Nursing, Navi Mumbai



BVDU College of Architecture, Pune



BVDU Dental College & Hospital, Sangli



BVDU Institute of Hotel Management and Catering Technology, Pune



BVDU Medical College & Hospital, Pune



BVDU Center for Health Management Studies and Research



BVDU Poona College of Pharmacy, Pune



BVDU Medical College & Hospital, Sangli



Bharati Vidyapeeth College of Nursing, Sangli



BVDU Institute of Management and Entrepreneurship Development, Pune



BVDU Rajiv Gandhi Institute of Information Technology & Biotechnology, Pune



Constituent Units of Bharati Vidyapeeth (Deemed to be University)

Health Sciences:

1. Faculty of Medical Sciences

- Medical College, Pune
School of Audiology and Speech Language Pathology, Pune
School of Optometry, Pune
- Medical College and Hospital, Sangli
School of Optometry, Sangli

2. Faculty of Dentistry

- Dental College and Hospital, Pune
- Dental College and Hospital, Sangli
- Dental College and Hospital, Navi Mumbai

3. Faculty of Ayurved

- College of Ayurved, Pune

4. Faculty of Homoeopathy

- Homoeopathic Medical College, Pune

5. Faculty of Nursing

- College of Nursing, Pune
- College of Nursing, Sangli
- College of Nursing, Navi Mumbai

Engineering & Technology

6. Faculty of Engineering and Technology

- College of Engineering, Pune
- College of Architecture, Pune

7. Faculty of Pharmaceutical Sciences

- Poona College of Pharmacy, Pune

Management

8. Faculty of Management Studies

- Institute of Management and Entrepreneurship Development, Pune
- Institute of Management and Research (BVIMR), Delhi

- Institute of Management, Kolhapur
- Institute of Management and Rural Development Administration, Sangli
- Yashwantrao Mohite Institute of Management, Karad
- Abhijit Kadam Institute of Management and Social Sciences, Solapur
- Institute of Hotel Management and Catering Technology, Pune

Social Sciences and Humanities

9. Faculty of Arts, Social Sciences and Commerce

- Yashwantrao Mohite College of Arts, Science and Commerce, Pune
School of Performing Arts, Pune
- Social Sciences Centre, Pune
- College of Physical Education, Pune

10. Faculty of Sciences

- Rajiv Gandhi Institute of Information Technology and Biotechnology, Pune
- Institute of Environment Education and Research, Pune

11. Faculty of Law

- New Law College, Pune
Bharati Vidyapeeth Department of Law, New Delhi

Faculty of Interdisciplinary Studies

12. Research Institutes:

- Interactive Research School for Health Affairs, Pune
- Yashwantrao Chavan Institute of Social Sciences Studies & Research, Pune
- Research and Development Centre in Pharmaceutical Sciences and Applied Chemistry

BVDU College Of Engineering, Pune.

Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune (BVDCOE), a constituent unit of Bharati Vidyapeeth (Deemed to be University), Pune, India. (University with 'A' Grade status by MHRD, Accredited 'A+' by NAAC in 2017 and 'A' Grade in 2004 & 2011) and holds a place of pride and is amongst the most reputed institute. It has been ranked to 99th by National Institutional Ranking Framework (NIRF). DATAQUEST-CMR national survey also ranked this institute to 13th among private technical institutions of India. Ranked 17th by Times of India, 14th by OUTLOOK and 12th by India Today. All programmes are accredited by National Board of Accreditation (NBA), New Delhi. This institute has Platinum Category in the AICTE-CII survey for industry institute interaction in 2018, 2019 and 2020. Ranked among Top 50 Private Institute of India by ARIIA, Ministry of Education, GOI.

Vision:

To be World Class Institute for Social Transformation Through Dynamic Education

Mission:

1. To provide quality technical education with advanced equipments, qualified faculty members, infrastructure to meet needs of profession and society.
2. To provide an environment conducive to innovation, creativity, research and entrepreneurial leadership.
3. To practice and promote professional ethics, transparency and accountability for social community, economic and environmental conditions.

Goals:

- a) Recruiting experienced faculty.
- b) Organising faculty development programs.
- c) Identifying socio-economically relevant areas and emerging technologies.
- d) Constant review and upgradation of curricula.
- e) Upgradation of laboratories, library and communication facilities.
- f) Collaboration with industry and research & development organizations.
- g) Sharing of knowledge, infra-structure and resources.
- h) Training, Extension, Testing and consultancy services
- i) Promoting interdisciplinary research.

For Details regarding infrastructural facilities, resources available and other activities conducted at institute are available on

www.bvucopune.edu.in





Bharati Vidyapeeth

(Deemed to be University),
Pune (India)
College of Engineering, Pune



Recognition, Accreditation & Ranking

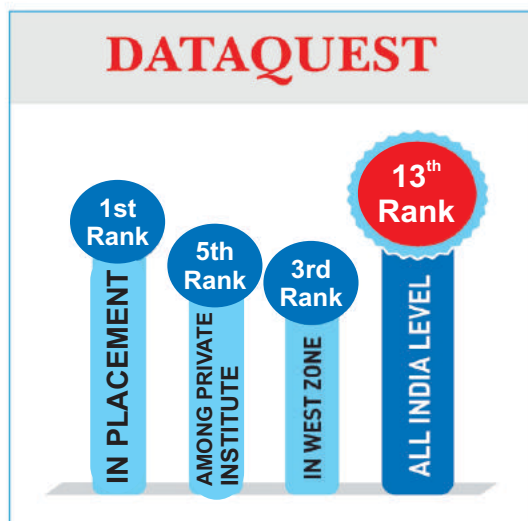


**RANKED AMONG TOP 100
INSTITUTE SUCCESSIVELY
FOR FIVE YEARS**

nirf 2020

**NATIONAL INSTITUTIONAL
RANKING FRAMEWORK
MINISTRY OF HUMAN RESOURCE
DEVELOPMENT (MHRD)
GOVERNMENT OF INDIA**

**RANKED 99th
AT NATIONAL LEVEL**



Accreditation & Recognition

While continuing the journey of academic excellence, BVDU College of Engineering, Pune has also successfully overcome new challenges and has got recognized for the same. We feel proud to be accredited and recognized by the top-most national councils and authorities in the field of education.

ACCREDITATION & RECOGNITION

99th Ranking by NIRF, MHRD, GOI

Ranked 20th at National level and 2nd at West Zone Level by AICTE internshala

13th Ranking by DATAQUEST-CMR

17th Ranking by Times of India

14th Ranking by Outlook

12th Ranking by India Today

Platinum Category in the AICTE-CII survey for industry institute interaction in 2018, 2019 & 2020

Programes Accredited by NBA New Delhi

Constituent Unit of BV(DU) which is Accredited to Grade A⁺ by NAAC in 2017 and Grade 'A' (2004 & 2011)

Ranked among Top 50 Private Institute of India by ARIIA, Ministry of Education, GOI

PROCEDURE AND RULES FOR ADMISSION

I ONLINE COMPUTER BASED ENTRANCE TEST (MULTI DATE ONLINE EXAMINATION) - GENERAL INSTRUCTIONS, TERMS AND CONDITIONS

- 1.1 CET (ENGINEERING)-2021 is a ranking examination for admission to **B.TECH (Engineering)-2021** for 1st year degree programmes for 2021-22 academic session.
- 1.2 Applicant may kindly note that mere appearance in the online computer based 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 College. The selection and admission to the programme is subject to fulfilling the admission criteria, eligibility, any such criteria as may be prescribed by the University and availability of seats to the particular programme and College at the time of counseling.
- 1.3 Applications of candidates producing false or fabricated information will not be considered
- 1.4 Before initiating online registration process, candidates should go through the Information brochure carefully for eligibility criteria, and pattern of examination etc. The information brochure shall be available at **www.bvuniversity.edu.in**
- 1.5 Incomplete online application, if not in accordance with instructions, will not be considered and processed. Applicant should carefully fill up all the fields during online application process and complete the payment process. Application once submitted finally, cannot be withdrawn/modified.
- 1.6 The computer based online entrance test fee, once paid, will not be refunded under any circumstances. Candidates who remain absent for the entrance test will forfeit their computer based online entrance test fee.
- 1.7 The Information brochure is subject to modification without notice, please check the website regularly for updations, if any.
- 1.8 The authorities of the College reserves the right to withdraw permission, if any, granted inadvertently to any candidate who is not eligible to appear in the computer based online entrance test even though Admit card/Registration number has been issued.
- 1.9 The Admissions provided to candidates based on the result of the computer based online entrance test will be purely provisional and subject to the fulfillment of eligibility criteria as mentioned in the Information brochure.
- 1.10 Under no circumstance a change in computer based online entrance test centre once selected by the candidate will be allowed.
- 1.11 Candidates MUST bring the following documents to the computer based online entrance test centre - (a) Printed copy of Admit Card (b) Any one of the authorized photo IDs (must be original, valid and non-expired): Aadhaar Card /PAN card/Driving license/Voter ID/Passport. The name on the photo identification must match with the name as shown on the Admit card. Candidate reporting to computer based online entrance test center without the above said requisite documents shall not be allowed to appear for the computer based online entrance test .
- 1.12 All the correspondence should preferably be addressed by e-mail. The e-mail query shall be addressed only if it is not anonymous and not vague.
- 1.13 Candidates are deemed to have read, agreed and accepted the terms and conditions in the Information brochure and on completing the online registration/application form for the computer based online entrance test .
- 1.14 In case differences of opinion or any ambiguity in interpretation and implementation of any of the instructions/terms/rules/criteria regarding the determination of eligibility/conduct of examinations/registration of candidates/ information contained herein, the same shall be referred to the Vice Chancellor of the Bharati Vidyapeeth (Deemed to be University) and his decision shall be final and binding on all concerned.
- 1.15 Any legal matters arising out of the total admission process through the All India Common Entrance Test of Bharati Vidyapeeth (Deemed to be University), Pune – 30 i.e. **CET (ENGINEERING)-2021**, shall be within the exclusive jurisdiction of competent courts at Pune, Maharashtra State only.

2. GENERAL

The students will be admitted to the Engineering degree programmes of the College of Engineering, Pune and Department of Engineering and Technology, off campus Navi Mumbai on the basis of the merit obtained by them in the All India Common Entrance Test **CET (ENGINEERING)-2021** conducted by the Bharati Vidyapeeth (Deemed to be University), Pune.

Courses & Intake Capacities at

Bharati Vidyapeeth (Deemed to be University) College of Engineering Pune

Sr. No.	Courses	Regular Category	Institutional Quota (15%)	Total intake for first year	Foreign/NRI/PIO Candidates (15% over and above intake)	J and K Candidates (PMSSS)
1.	B.Tech. (Computer)	102	18	120	18	04
2.	B.Tech. (Electronics and Tele-Communication)	102	18	120	18	04
3.	B.Tech. (Electronics and Communication Engineering)	102	18	120	18	04
4.	B.Tech.(Mechanical)	102	18	120	18	04
5.	B.Tech.(Computer Science and Business Systems)	51	09	60	09	04
6.	B. Tech. (Computer Science and Engineering)	51	09	60	09	04
7.	B.Tech.(Information Technology)	51	09	60	09	04
8.	B.Tech.(Robotics and Automation)	51	09	60	09	04
9.	B.Tech.(Electrical)	51	09	60	09	04
10.	B.Tech.(Civil)	51	09	60	09	04
11.	B.Tech.(Chemical)	51	09	60	09	04

Courses & Intake Capacities at Bharati Vidyapeeth (Deemed to be University)

Department of Engineering and Technology, off campus Navi Mumbai

Sr. No.	Courses	Regular Category	Institutional Quota (15%)	Total intake for first year	Foreign/NRI/PIO Candidates(15% over and above intake)	J and K Candidates (PMSSS)
1.	B.Tech.(Computer Science and Business Systems)	51	09	60	09	04
2.	B. Tech. (Computer Science and Engineering)	51	09	60	09	04
3.	B.Tech.(Information Technology)	51	09	60	09	04
4.	B.Tech.(Robotics and Automation)	51	09	60	09	04
5.	B.Tech.(Mechanical Engineering Design)	51	09	60	09	04

N.B. :

I Foreign National / PIO / OCI Merit Seats :

Fifteen percent (15%) supernumerary seats of over and above the sanctioned intake in each discipline are reserved for Foreign National / PIO / OCI. Candidates desirous of getting admission under these Category will have to apply to **The Registrar, Bharati Vidyapeeth (Deemed to be University) Pune, India**. The last date for submission of the forms for this category is **20th June 2021** before 5 p.m.

I Foreign National / PIO / OCI / NRI / Institutional Quota Merit Seats :

Fifteen percent (15%) of the sanctioned intake in each branch are reserved for Foreign/NRI(Non-Resident-Indian)/P.I.O./O.C.I./ Institutional Quota Merit Category students. Candidates seeking admissions to the seats of this category will have to apply to **The Registrar, Bharati Vidyapeeth (Deemed to be University) Pune, India**. The Form fee for this category is RS. 1000/- (non refundable). Seats remaining vacant after allotment to Foreign / N.R.I. / P.I.O. / O.C.I. merit students will be allotted to Indian students under Institutional Quota Merit Category on the basis of marks obtained by them in the **CET (Engineering) -2021**. The last date for submission of the forms for this category is **20th June 2021** before 5 p.m.

I Concession for the ward of Kashmiri Migrants and Kashmiri Pandit /Kashmiri Hindu Families[Non-Migrants] living in Kashmir valley for admission in Higher Education Institutions.

As per circular No. F.No.3-4/2017-NER, Government of India, Ministry of Human Resource Development, Department of Higher Education, Economic Administration Division, dated **15th October 2019**, concession for the ward of Kashmiri Migrants and Kashmiri Pandit /Kashmiri Hindu Families[Non-Migrants] living in Kashmir valley for admission in Higher Education Institutions.

- Relaxation in cut-off percentage upto 10% subject to minimum eligibility requirements.
- Increase in intake capacity upto 5% course-wise.
- Reservation of at least one seat in merit quota in technical/professional institutions.
- Waiving off domicile requirements for Kashmiri migrants only. Kashmiri Pandits/Kashmiri Hindu families [Non-Migrants] living in the Kashmiri Valley need domicile certificate.

3 ELIGIBILITY FOR APPEARING IN CET (ENGINEERING) - 2021

Only those candidates who satisfy or are likely to satisfy the relevant eligibility requirement for admission to the courses will be consider to appear for the computer based online entrance test **CET (Engineering-2021**

Sr.No.	Programme	Degree	Duration	Eligibility
1.	Engineering and Technology	B.Tech.	04 years	<p>i. The candidate should be Indian National.</p> <p>ii. Passed 10+2 examinations with Physics and Mathematics as compulsory subjects along with one of the Chemistry/Biotechnology/Biology/Technical vocational subject. Obtained at least 50%(45% in case of candidate belongs to reserved category (SC/ST) above subjects taken together.</p> <p>OR (ii) Passed diploma in Engineering and Technology and obtained at least 50% marks (at least 45% marks, in case of backward class categories and persons with Disability candidates belonging to Maharashtra state only)</p>



4. BASIS OF SELECTION FOR ADMISSION

- 4.1 A Candidate desirous of seeking admission to B.Tech.(Engineering) Programme should fulfill the minimum eligibility condition as stated in point no 3, above.
- 4.2 He/She must have appeared for the computer based online entrance test **CET (ENGINEERING)-2021** conducted by Bharati Vidyapeeth (Deemed to be University), Pune at designated centres.
- 4.3 The candidates whose names appear in the list prepared on the basis of marks obtained by them in **CET (ENGINEERING)-2021** should attend the Counselling and on-the-spot admissions sessions to the various branches and courses as per their ranks in the merit list. The Counselling Sessions combined for all branches will be conducted at **Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune-Satara Road, Pune 411043**. Mere appearance in the computer based online 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 college. The selection and admission to the programme is subject to fulfilling the eligibility criteria.
- 4.4 In case two or more candidates obtain equal marks in the **CET (ENGINEERING)-2021**, the inter rank of such candidates shall be determined in order of preference as under :
 - a) Candidates obtaining higher marks in Mathematics in the computer based online entrance test.
 - b) Candidates obtaining higher aggregate percentage of marks in H.S.C./equivalent examinations
 - c) Candidates obtaining higher percentage of marks in Mathematics in the 10th standard examination.
 - d) In case of tie at this level, computerised random selection of candidate will be carried out.

5. NATURE OF ENTRANCE TEST “CET (Engineering)-2021”

The **CET (ENGINEERING)-2021** is a Computer based Online entrance test for admission to B.Tech Programme will consist of in all 200 marks.

- 5.1 The Computer based Online Entrance Test **CET (ENGINEERING)-2021** for admission to B.TECH. (Engineering) Programme will be of 200 marks. The examination consists of one question paper set in English medium and will consist of 200 multiple choice questions with four alternatives, with only one correct or most appropriate answer. One Mark will be awarded for each correct answer. It will consist of 80 questions on Mathematics, 60 questions on physics and 60 questions on Chemistry. The duration of the examination is of 3 hours. These questions will be in general on the detailed syllabi given in Annexure- I. There is no negative marking for the wrong answer chosen or unanswered questions by the candidates. The entrance test will conducted online on computer.

6. ENTRANCE TEST SCHEDULE AND ADMIT CARDS

The Computer based Online entrance test **CET (ENGINEERING)-2021** will be held twice as per the dates mentioned at Important Dates page(after front page). The Candidates has a choice to appear for the Computer based Online Entrance Test on any one of the date. A single result will be prepared for all the tests.

The admit cards will be available from seven days prior to the date of entrance test. The candidate will have to, login with their credentials provided and download their respective admit card of particular entrance test for which he/she applied for.

If appearing for the Computer centre based online entrance test (CBT).

- 6.1 The reporting time before the gate closes shall be mentioned in the admit card. The candidate must report as per the time schedule at the test venue.
- 6.2 The candidates must bring admit card at the Computer centre based online entrance test. No candidate will be allowed entry without this Hall Ticket. The candidate is also required to bring one of the photo



identification card in original viz. Voter Identity Card, Driving License, PAN Card, Passport or Aadhar Card etc.

- 6.3 No candidate will be allowed to enter the Computer centre based online entrance test after the scheduled time of commencement of examination.
- 6.4 The candidates appearing for the Computer centre based online entrance test should, in their own interest, check their eligibility in all respect so as to avoid disappointment at any later stage. Your application for the Computer based Online Entrance test is "PURELY PROVISIONAL" pending detailed scrutiny of your fulfilling the eligibility conditions as mentioned in the information brochure for the programme applied. In case, it is found that the candidate does not fulfill the eligibility criteria, Online application of such candidate is liable to be rejected at any stage of admission process or even after joining in the College.

Candidates MUST bring the following documents to the computer based online entrance test centre -

- (a) Printed copy of Admit Card
- (b) Any one of the authorized photo IDs (must be original, valid and non-expired): Aadhaar Card / PAN card/ Driving license/ Voter ID/ Passport. The name on the photo identification must match with the name as show on the Admit card.

Candidate reporting to online computer based entrance test center without the above said requisite documents shall not be allowed to appear for the online computer based entrance test. All India online computer based entrance test **CET (ENGINEERING)-2021** is conducted by Bharati Vidyapeeth (Deemed to be University),Pune.

If appearing for Remote Proctored Home based Online test (RPHBT):

The candidate has to make prior arrangements of the minimum hardware and software required. The candidate has to appear for the test from their home location at the allotted time.

Prior to conduct of the actual test a mock-test will be held to familiarise the candidate regarding home based entrance test.

7. TEST CENTERS FOR COMPUTER CENTRE BASED ONLINE ENTRANCE TEST

The **CET (ENGINEERING)-2021** Computer centre based online Entrance test will be held in 58 centres throughout the country giving students a wide choice of test centres.

The list of cities where the Computer centre based online Entrance test are located is as below :

SR NO	CITY	SR NO	CITY	SR NO	CITY	SR NO	CITY
1	GUWAHATI	16	AMRITSAR	31	BANGALORE	46	THANE
2	PATNA	17	JAMMU	32	ERNAKULAM/COCHI/KOCHI	47	AURANGABAD
3	MUZAFARPUR	18	JAIPUR	33	HYDERABAD	48	SANGLI
4	RANCHI	19	KOTA	34	RAIPUR	49	KOLHAPUR
5	JAMSHEDPUR	20	JODHPUR	35	PANAJI	50	KARAD
6	IMPHAL	21	ALLAHABAD	36	AHMEDABAD	51	NASIK
7	BHUBANESWAR	22	LUCKNOW	37	BARODA	52	PUNE
8	KOLKATA	23	VARANASI	38	SURAT	53	JALGAON
9	CHANDIGARH	24	MEERUT	39	RAJKOT	54	AKOLA
10	GHAZIABAD	25	BAREILY	40	INDORE	55	AHMEDNAGAR
11	FARIDABAD	26	GORAKHPUR	41	BHOPAL	56	LATUR
12	NEW DELHI	27	KANPUR	42	JABALPUR	57	SOLAPUR
13	ROHTAK	28	AGRA	43	AMRAWATI	58	SRINAGAR
14	KARNAL	29	NOIDA	44	NAGPUR		
15	SHIMLA	30	DEHRADHUN	45	MUMBAI		

***Note: If the candidates count for a centre is less than 25, then the candidate will be allocated to the nearest available centre. NO REQUEST FOR CHANGE IN EXAMINATION CENTRE WILL BE CONSIDERED UNDER ANY CIRCUMSTANCES.**

- 7.1 The candidates must also bring along the admit card. Candidate shall appear for the entrance test at the computer centre as shown on their admit cards.
- 7.2 To attend the entrance test at the computer centre, candidates must compulsorily bring their valid admit card and any one of the valid authorized photo ID (must be original, valid and non-expired): Aadhaar Card /PAN card/Driving license/Voter ID/Passport. The name on the photo identification must match with the name as shown on the Admit card. Candidate reporting to Computer centre without the above said requisite documents shall not be allowed to appear for the Computer centre based online Entrance test.
- 7.3 Candidates have the option of selecting their city to appear for the Computer centre based online Entrance test during filling up of online application form.
- 7.4 Candidates are advised to familiarize themselves with the route and location of the Computer centre to appear for the Entrance test.
- 7.5 Possession and use of electronic devices such as Mobile Phone, Micro Phone or any other Associated Accessories, Calculator, Log Tables, Pager, Digital Diary Books etc are strictly prohibited in the Examination Hall. If any candidate is found in possession of any these devices/ documents his/her candidature is liable to be cancelled. As such the candidates should not bring Mobile Phone/ Micro Phone etc at the Computer centre based online Entrance test. BHARATI VIDYAPEETH & EXAM CENTER will not be responsible for its safe custody.
- 7.6 The authorities of Bharati Vidyapeeth (Deemed to be University) however reserve the right to make suitable changes in the test venue or schedule of the Computer centre based online Entrance test.
- 7.7 Only registered candidates with valid admit card and identity card will be allowed at the examination center
- 7.8 The candidates must reach the test centre at least one and half hour prior to the commencement of test on the day of the Computer centre based online Entrance test.

8. ENTRANCE TEST FEE:

8.1 Entrance test fee: Rs 1,700 /-

- 8.2 The computer based online entrance test fee shall be paid through payment gateway using internet banking

mode or through debit/credit card. Service charges and other taxes for transaction as applicable by bank has to be paid by the applicant.

- 8.3 The computer based online entrance test fee, once paid, will not be refunded under any circumstances. Candidates who remain absent for the computer based online entrance test will forfeit their computer based online entrance test fee.

9. APPLICATION PROCEDURE:

A candidate desirous of appearing for the “CET (ENGINEERING)-2021” is required to complete and submit the prescribed application form, online along with entrance test fee.

The application form is available online at: www.bvuniversity.edu.in

The candidates should strictly follow the instructions given in the website while filling up the application form online, and must read the instructions carefully before filling up the online application form. Instructions are mentioned at ‘Registration Guide’ menu which is available on website. Before filling up the application form online, candidates should:

- a) Create their login credential
- b) Have a scanned image of their recent passport size photograph (Refer to guidelines mentioned on the Website)
- c) Have a scanned image of their signature, ready before filling up the online application form.
- d) Read the procedure and guidelines for online payments of test fee which is to be made through Credit Card / Debit Card/ Internet Banking. (Refer to guidelines, terms and conditions for using online payment mentioned on the website)

The candidate may then proceed to fill the form and submit the completed online application form. The candidate should take a print of payment receipt and completed online application form for reference and as a record.

Candidates should submit the completed online application form on or before the last date mentioned in the website. (See “Important dates” in the brochure.)

Candidate should ensure that all information entered during the online application process is correct.

Applications of candidates producing false or fabricated information will not be considered.

The authorities of the University do not edit /modify/alter any information entered by the candidates at the time of online application process under any circumstances. Any request for change in information there after will not be entertained.

For any queries related to filling online application form, Email to : cet@bharativedyapeeth.edu

Tel. No. 020-24407131/132/133/163

***Note: NO REQUEST FOR CHANGE IN EXAMINATION DATE AND EXAMINATION CENTRE WILL BE CONSIDERED UNDER ANY CIRCUMSTANCES.**

The university will not be responsible if the candidate has filled in and submitted an application for a different test from the one intended to appear. In such cases the university will not refund the entrance test fees. For any queries please mail us at email: cet@bharativedyapeeth.edu

10. A) INSTRUCTIONS REGARDING COMPUTER CENTRE BASED ONLINE ENTRANCE TEST.

About Question Paper:

- 1) All questions are compulsory. for each question, four alternatives answers have been provided out of which only one answer is correct.
- 2) Only one question will be displayed on the computer screen at a time.
- 3) There is one mark for each question which will be displayed at the top right hand corner of each question.
- 4) There is no negative marking.
- 5) The question paper will appear in English language.
- 6) Candidates can attempt question in any sequence by clicking on the question number in the **Section wise Summary Report** reflecting on the left hand side of the screen.
- 7) The exam screen will continuously display the remaining time at the top right hand corner of the question paper.
- 8) The candidates may ask the Invigilator their doubts or questions before the commencement of test. No queries shall be entertained after the commencement of the examination.
- 9) Additional rough Sheet (if required) shall be provided to the candidates for rough work during the test. All the rough sheets need to be returned to the Invigilator before leaving the test venue.

About Answering Questions:

- 1) In order to answer a question, you have to `Click' the option you think is appropriate/ correct. The alternative which has been clicked on will be highlighted and shall be treated as the answer given by you for the question.
- 2) If you do not wish to attempt the question then you should not click on any option for that question and may click `Next'.
- 3) You can `Bookmark' questions to review before submitting.
- 4) You can navigate between questions either by clicking on `Previous/Next' or by directly clicking on the question numbers which are displayed as attempted/ unattempted /book marked in the **Section wise Summary Report**.

About Preview and Submission:

- 1) The answers are saved whenever the candidate navigates e.g. by clicking on Next/ Previous button or by clicking on other question number.
- 2) The candidates can make changes in their choice of alternative only before the paper is **auto** submitted.
- 3) Candidate can switch to any of the question by clicking on summary panel shown at the left hand side of the screen.
- 4) After the expiry of the test time, the candidates will not be able to attempt any question or check their answers. The answers of the candidate would be saved and submitted automatically by the computer system.
- 5) A "Thank you" message will appear confirming the completion and submission of the examination.

Candidates can be debarred/ disqualified by the Chief Proctor of the Exam Centre for any of the following reasons:

1. Creating a disturbance.
2. Impersonation - Attempting to take the examination for someone else.

3. Giving or receiving assistance of any kind during the examination and communication in any form between candidates or with outsiders.
4. Smoking or eating in the Examination Hall.
5. Attempting to tamper with the operation of the computer or meddling with system.
6. Exchanging any papers, documents or any other material with other candidates.
7. Leaving the test centre without the permission from the invigilator.
8. Using prohibited aids, items not allowed, such as:
 - o Stationary items including Pens, Pencils, Scales, Papers, Books, Notebooks, Calculators, Watch calculators, etc.
 - o Mobile phones, Pagers, Health bands, Watches, any other electronic gadgets etc
 - o Jewellery including Earrings, Finger rings, Metal Bangles, Pendants, Nose pins, Chains, Necklace etc
 - o Shoes & socks, Wallets, Sunglasses, Jackets etc are not allowed. Candidates will be asked to remove their Jackets, Footwear before entering the Test Hall.
9. Attempting to copy examination questions and /or examination responses (in any format) from the examination centre.
10. Attempting to access any unauthorized software/program during the examination.
11. Failing to follow invigilators directions.
12. Manhandling of invigilators or test centre staff.
13. Resorting to unfair means or trying to influence in any way for examination results shall be considered as a serious offence and any candidate found guilty of such offence on the report of any person duly authorized in conduct of the examination, shall be liable to have his/her name removed from the list of candidates entered for the Examination and may also be further dealt with in such manner as the examination authority may deem fit.
14. Candidates shall maintain silence while appearing for the exam. Any conversation or gesticulating or disturbance or attempt to change seats/question paper in the Examination Hall shall be deemed as unfair means.
15. If a candidate is found indulging in unfair means or impersonation, the candidature of such candidate shall be cancelled. The candidate shall be expelled from the examination by the Test Centre Administrator and such matter shall be reported to concerned authorities for appropriate action.
16. The Test Centre Administrator at the Exam Centre is authorized to debar the candidate/s from the examination centre for any misconduct.
17. A mock test will be available on the bvuniversity.edu.in website for practice for all candidates who have been issued Admit Cards for the exam.

B) INSTRUCTIONS REGARDING REMOTE PROCTORED HOME BASED ONLINE ENTRANCE TEST

RULES AND REGULATIONS of Remote Proctored Home based Online Test

Note: Rules and Regulations will remain same for Mock (Practice) and Live Actual Final Test. Attempting Mock (Practice) test is mandatory, you will not be able to give your Final Final Test if you have not completed your Mock (Practice) test

The online test will be held only through desktop / laptop.

Instructions for the CANDIDATE appearing for ONLINE EXAMINATION using their infrastructure like

desktop/laptop, internet, web camera, microphone, etc.

- Exam Start Time: As per schedule sent to you through email
- Candidate will not be allowed to appear after 30 minutes from his/her scheduled time. Under no circumstances, the test can be rescheduled.
- Candidates should log in 15 minutes before the scheduled start time of the exam.
- Accessing Your Exam Online: You must have received an email from the Institute with login credentials. Candidate to keep login details safe and DO NOT share with anyone else.

Before starting the exam, please ensure the following:

- You are using a computer system equipped with Windows Operating System (version 8 and above).
- You have installed Google Chrome Browser (80.0 and above version) with cookies & popups enabled.
- There is an active & stable Internet Connection with more than 2 mbps (with high-frequency Wifi)
- There is a minimum available data pack (3GB - 4 GB)
- Your device has a working integrated web camera and microphone. A webcam is a must to take the test.
- You have your ID card (issued by Local Government Authorities / Passport / Employer ID) ready with you for the candidate verification process. We don't issue any separate ID cards.

Code of Conduct:

- Though the test is being taken at the candidates' place of stay, their conduct during the examination will be proctored using Artificial Intelligence as well as a Human proctor (invigilator) through continuous video and audio feed.
- There is a zero-tolerance policy for unethical behaviour.
- It is strongly advised that the candidate takes the examination with utmost solemnity and ensures that all the instructions are strictly followed.
- Exam authority reserves the right to disqualify any candidate who is found to be indulging in any kind of malpractice.

Authentication Process:

Please go through the following 2-step verification process

- Step 1 : Show your face to the camera and click submit
- Step 2: Show your ID Card (issued by Local Government Authorities / Passport / Employer ID) and click submit.



- An authorizer will connect to you for verification. This may take 20-30 minutes. You may get this message while you are waiting: "We are currently processing your authorization submission" or "You are in the queue. Please wait while your details are being authorized". Please note the exam time will not be counted during the verification process. Your actual test time will start once you start attempting the questions, so please don't panic.
- Upon authorization, you will be allowed to enter the examination interface.

Examination environment rules:

1. No other person is allowed to enter the room once your test starts.
2. The lighting in the room must be bright enough to be considered 'daylight' quality. Overhead lighting is preferred. If overhead lighting is not available, the source of light must not be behind you.
3. Please make sure your face is visible at all times with enough light on your face. Do not look away from the screen or hide/cover your mouth or face
4. You must sit at a clean desk or table.
5. The desk or walls around you must not have any writing on them.
6. The room must be as quiet as possible. No sounds (such as music or television) are permitted.
7. The following items must not be on your desk or used during your proctored exam:
 - Books • Textbooks • Notebooks • Mobile Phones or any other electronic device
8. You may keep the following with you:
 - A water bottle • Two sheets for rough work • Pen or Pencil for rough work. • Calculators
9. Please ensure that your laptop is fully charged for the examination and your webcam is working properly.

The computer/laptop you use to take the examination:

1. The computer you would be using to take the exam must not have more than one display or monitor. For example, if you usually use a laptop with a monitor connected, please disconnect your monitor and use only the laptop screen.
2. You must close all other programs or windows on your testing computer before you begin the exam.

Minimum Computer/System Requirement:

I) Desktop/Laptop:

- Internet Browser: Google Chrome version 80 & above, with cookies & popups enabled
- Video/Audio: Webcam min. 1.3 MP and a good quality Mic is required
- Operating system: Windows 8 or 10
- RAM & Processor: 4 GB+ RAM, i3 5th Generation 2.2 GHz or equivalent/higher
- Pop-up blocker: Disabled
- Uninterrupted power supply (UPS/ Inverter, etc.)

II) Internet Connection:

- Dedicated Internet and Internet Bandwidth of minimum 2 MBPS (4G/ Wi-Fi) or above + upload speed

Some Do's and Don'ts:

- Candidates are requested to keep attention on the chat window with the proctor/invigilator. You may ask your queries related to the test with the proctor.
- Candidates must be in front of their screen at all times.

- Candidates' activities will be constantly observed, monitored, and recorded.
- The web Camera and Mic should not be covered with any article during the entire exam duration.
- Don't Position the camera too low, too high, or hooked onto a different monitor. Weird camera angles can be very distracting and unflattering during the examination. The candidate should make sure that the camera is at eye level and on the monitor which is used for the examination.
- Browsing other windows or applications is prohibited. After few warnings, the system will automatically end the exam leading to disqualification.
- **IMP: The Candidate must ensure that he/she attempted every question and reviewed the accuracy of his/her answers before submitting the paper. Once submitted (even by mistake), re-examination will not be permitted.**
- **IMP: Candidates are not permitted to logout/ switch off the computer for sake of going to the washroom and if they log out / switch-off, re-login will not be permitted.**
- **Please don't click on the taskbar or anywhere outside the test window or any notification which you get on your desktop / laptop during the test. You will get few warnings for moving away from the test window and despite that, if it repeats, your test will be terminated automatically.**
- You must not use headphones, earbuds, or any other type of listening equipment.
- You must not communicate with any other person by any means once you start taking the examination.
- You must not use a phone for any reason.
- You must not leave the room during the exam for any reason, during the test.
- Do NOT press the F5 key or refresh the screen, while you are taking the exam, as it will terminate the exam.
- Candidate must dress decently.

What to do if your online exam is interrupted?

- In case the candidate gets disconnected from the exam for any reason, try logging out and in again. If you continue to face technical issues, please email immediately at helpdesk@onlineregistrationform.org with your Registration Id and Subject ID
 1. If you are not able to log in on the examination portal.
 2. In case you have any issue with starting the examination.
 3. If examination will get disconnected if your webcam gets closed due to any reason.
 4. In case of any system/internet issue or power failure at your place during the examination, then

Please email immediately at helpdesk@onlineregistrationform.org with your Registration Id and Subject ID

- If you get repeated warnings, your test will be terminated automatically. To resume the test, please mail at helpdesk@onlineregistrationform.org

Privacy:

During the remote proctored Final Test, Images/Videos/Sounds of the candidates and their computer systems will be captured and stored for Final Test proctoring purposes. It is envisaged that candidates who register for the remote proctored Final Test agree for the same.



11. DECLARATION OF RESULT :

A single merit list of all the computer based online entrance tests of **CET (ENGINEERING)-2021** (based on 200 marks), will be declared as per the dates mentioned at Important Dates page(after front page). The combined merit list for all the tests together will be declared for both the colleges. Separate merit list will be prepared for Regular category and Foreign/NRI/PIO/OCI/ Institutional Quota Merit Category. Who have appeared for **CET (ENGINEERING)-2021** based on the total marks obtained by them in Mathematics , Physics and Chemistry taken together.

The result of **CET (ENGINEERING)-2021** test will be displayed on following web site :

1. **University Website : www.bvuniversity.edu.in**
2. **College Website : www.bvucoepune.edu.in**

The merit list of **CET (ENGINEERING)-2021** computer based online entrance test will be declared and displayed at the Bharati Vidyapeeth (Deemed to be University), College of Engineering, Dhankawadi, Pune-411043.

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 the dates mentioned at Important Dates page(after front page).

The candidate from merit No. 1 to 3000 should attend the counselling on the dates mentioned in the counselling schedule mentioned in 12.1 below. Candidate from merit no. 3001 to 5000 should attend the counselling only after confirmation of vacancy position on our websites and on the dates specified mentioned below.

12. COUNSELING AND SPOT ADMISSIONS :

After declaration of result / merit list the university will dispatch counselling and on the spot selection invitation letters to first 5000 candidate in the merit list of **CET (Engineering) - 2021**. Candidates who have filled the application form online and whose name appear within the merit list of first 3000 will receive the counseling invitation letters at the email address provided.

12.1 The counselling schedule will be held as per the dates mentioned at Important Dates page(after front page):

The candidate must report for counselling at 10.00 a.m. only, on the date of the counselling at the respective centers.

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 candidate must note that appearance for the computer based online entrance test and inclusion of name in the merit list does not necessarily mean that he/she will get admission to the college & course. The admission will depend upon the availability of seats to the particular programme and college at the time of his counselling.

It shall be candidates responsibility to see the result computer based online entrance test and confirm their merit no. The candidate should remain present for counselling as per the schedule.

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 given. The candidate should bring along with them proof of having appeared for the computer based online entrance test such as Admit Card or photo copy of application form / Demand Draft etc.

The candidate will be offered a seat in the college of their choice and course as per the combined merit list prepared by Bharati Vidyapeeth (Deemed to be University), Pune for all the colleges and all the courses. 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 College and particular programme.

- The university shall allot the seats by merit and as per availability of vacancy in the branch at the time of counselling. It may be possible that seat in the branch of the choice of the candidate or in any other branch may not be available at the time of counselling of the candidate. The university shall not be responsible for the same.
- The counselling session will be conducted at **Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune Satara Road, Dhankawadi, Pune-43.**

Tel. No. : 020 24107390/24107391 Fax No. : 020 24372998

Website : bvucoepune.edu.in Email : info@bvucoep.edu.in, admissions@bvucoep.edu.in

as per the schedule. Failure to report for counselling on the scheduled date and time may result in instantaneous cancellation of candidate's claim for admission. It shall be candidate's responsibility to see the result of CET (Engineering) - 2021

- The candidate should remain present for the personal interview (counselling) and for on the spot admission, if eligible, even though he/she does not receive any intimation letter from the University.
- Only the candidate and one of his parents/guardian will be allowed into the hall where counselling is held. The candidates will be called in the order of their ranking in the merit list and offered the seats to the various courses available at that point of time. The candidate will be allowed to choose admission to the course in which seats are available when his / her turn for counselling comes.
- The candidate must note that appearance at this test and inclusion of name in the merit list do not necessarily mean that he/she will get admission to the course of his/her choice. His/Her admission to a particular course will depend upon the availability of vacancies for that particular course at the time of his/her counselling.
- At the time of reporting for the counselling, the candidate is required to produce the documents (original and two sets of photocopies) listed in **Annexure-II** and letter for counselling. If the candidate is admitted to any of the courses, these documents will be retained by the University till he/she completes the course. If the candidate fails to produce all or any of the documents listed in **Annexure II**, he/she will instantaneously forfeit his/her claim for a seat.
- It may be possible that the student may fail to receive the invitation letter due to any reason. They may attend the counselling sessions as per the schedule of counselling on their own, provided they satisfy requisite qualifications for admission and that their name appears in the merit list in the CET (Engineering) - 2021. The candidates who fail to receive the counselling letter, for whatever reason, must bring some other proof of identity of appearing at CET

(Engineering) – 2021 examination, for permission to appear for the counselling sessions. It will not be possible to make any changes or adjustments in the dates of the counselling sessions.

- The candidate should attend counselling session on his / her own judgment. It may happen that a seat for admission for the course of his choice may not be available when his / her turn comes up as per the merit in CET (Engineering) - 2021 results.
- The candidates in the merit list prepared on the basis of marks obtained by the candidates in the CET (Engineering) - 2021 will be called in as per their ranks for counselling and on the spot admission to the various courses as per schedule.
- Admission status and vacancy positions will be uploaded on college website daily during counseling period.
- All students and parents are requested to refer college website - www.bvucoepune.edu.in for vacancy status during counselling and report accordingly.
- After filling all the seats, waiting list numbers will be allotted to only those candidates who have reported for counselling.

Candidates in the waiting list will be called for admission subject to the vacancies developed on the basis of cancellation of admissions by the candidates admitted through the counselling.

However vacancies developed because of cancellation of admission by the students, will be made available to the students admitted & who stands next in the merit list.

- 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 IV** as well as all the documents listed in **Annexure II**. If the candidate or his /her representative fails to report for the counselling on the date and the time mentioned in the schedule of counselling, his/her claim for admission to any of the branches or courses will be forfeited. The choice of course or branch made by the candidate/his/her representative will be final and binding and will not be ordinarily altered later
- The selected candidate will be required to pay the entire amount of annual tuition fee and other fees on the day of counselling itself, through Bank Draft drawn on any nationalized bank in favour of the **“The Principal, BV(DU), College of Engineering, Pune, India.** In case the candidate fails to remit the entire amount of fees, he/she is likely to lose his/her claim for admission. Refund of fees will be governed by the rules of the University prevailing at that time. College / University will accept fee by online/net banking/NEFT/RTGS.

- 12.2 After scrutiny of their certificates, the candidates are offered admission according to their rank and availability of seats.

13. FEE STRUCTURE for 2021-2022 only :

Name Of Course	General Category Student Fee in Rs.	Institutional Quota Merit Category Student Fee in Rs.	Foreign / NRI / PIO Student Fee in \$
B.Tech. (Computer)	Rs.1,75,000/-	Rs. 3,50,000/-	US \$ 6000 -
B.Tech. (Computer Science & Engineering)	Rs.1,75,000/-	Rs. 3,50,000/-	US \$ 6000 -
B.Tech. (Computer Science & Business System)	Rs.1,75,000/-	Rs. 3,50,000/-	US \$ 6000 -
B.Tech. (Information Technology)	Rs.1,75,000/-	Rs. 3,50,000/-	US \$ 6000 -
B.Tech. (Robotics & Automation)	Rs.1,75,000/-	Rs. 3,50,000/-	US \$ 6000 -
B.Tech. (E & TC)	Rs.1,50,000/-	Rs. 3,00,000/-	US \$ 5500 -
B.Tech. (ECE)	Rs.1,50,000/-	Rs. 3,00,000/-	US \$ 5500 -
B.Tech. (Mechanical)	Rs.1,50,000/-	Rs. 3,00,000/-	US \$ 5500 -
B.Tech. (Mechanical Engineering Design)	Rs.1,50,000/-	Rs. 3,00,000/-	US \$ 5500 -
B.Tech. (Chemical)	Rs.1,25,000/-	Rs. 2,50,000/-	US \$ 5000 -
B.Tech. (Civil)	Rs.1,25,000/-	Rs. 2,50,000/-	US \$ 5000 -
B.Tech. (Electrical)	Rs.1,25,000/-	Rs. 2,50,000/-	US \$ 5000 -
B.Tech. (Production)	Rs.1,25,000/-	Rs. 2,50,000/-	US \$ 5000 -

Note: In addition, caution money deposit(Rs.2000),smart card fee (Rs.450),Dress code fee(Rs.1000),Eligibility fee(Rs.215),stationary fee(Rs.800) has to be paid by through Demand Draft on any nationalized bank in favour of the "The Principal, BV(DU) College of Engineering, Pune" payable at Pune on the day of counselling itself. In case the candidate fails to remit the entire amount of fees,he/she is likely to lose his/her claim for admission.

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 **"The Principal, BV(DU) College of Engineering, Pune" payable at Pune.** The details of payment through online mode will be informed.

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 list. However, if candidate is unable to report in person, he/she can depute a representative with an authority letter signed by the candidate (appended in this brochure) along with requisite documents under sec. 12 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.



University Grants Commission

Notification

on

Refund of Fees and Non-Retention of Original Certificates

October, 2018

1. Introduction:

The Commission has notified University Grants Commission (Grievance Redressal) Regulations, 2012 on redressal of multifarious grievances of students. But given the sheer volume of the complaints regarding non-refund of fees and retention of original certificates by Higher Educational Institutions (HEI), the Commission felt the need to notify elaborate instructions so as to curb such malpractices and decided to issue appropriate instructions in the form of this Notification to all universities and other HEIs under the purview of the UGC.

2. Objective:

To prohibit coercive and profiteering institutional practices in the matters related to refund of fees in case of withdrawal from the programme and retention of original certificates at the time of and / or after admission.

In exercise of powers conferred by Section 12 (d) read with Section 12(j) of the UGC Act, 1956, the UGC issues this Notification for adoption of standard operating procedures in the matters related to refund of fees in the event of student's withdrawal from the program and non-retention of certificates at the time of admission.

3. Application and Enforcement

3.1. The instructions contained in this Notification shall be in supersession to its earlier Public Notice dated 23.04.2007 and its Notification dated 16th December, 2016. It shall be applicable to Undergraduate, Postgraduate and Research Programs run by universities included under Section 2 (f) of UGC Act, together with all colleges under their affiliating domain and institutions declared as deemed to be universities under Section 3 of the UGC Act.

3.2 The provisions contained in this Notification shall come into force with immediate effect and shall have regulatory force on extant as well as future grievances over issues and matters covered herein.

4. Specific provisions for Mandatory compliance by HEIs:

The Commission herewith lays down specific provisions and consequent mandatory compliance on the issues related to:

- (1) Refund of fees by the institution concerned in the event of the withdrawal from the programme by a student; and
- (2) Verification and non-retention of academic and personal certificates of student;

For any complaint in respect of (1) & (2) above, the grievance redressal mechanism as prescribed under UGC (Grievance Redressal) Regulations, 2012, shall be followed.

4.1 Refund of Fees

4.1.1 No HEI shall make it mandatory for applicants to purchase the institutional prospectus at any time during the course of the programme of study. Purchasing prospectus shall be the personal choice of the applicant and he/she shall have rights to decide against it in case he/she wishes to access the information from the institutional website. As laid down in the Right to Information Act, 2005, and reiterated in the UGC Guidelines on Students' Entitlement, all HEIs shall disclose on their website and prospectus information regarding the status of the institution, its affiliation, accreditation

status, physical assets and amenities, course-wise sanctioned intake of students, various types of fees payable for different programmes, total fees payable for an entire programme, last date of admission, details of faculty, members of governing bodies and minutes of the meetings of bodies like Academic/Executive Council, sources of income, the financial situation and any other information about its functioning, necessary for an applicant to make a fully informed choice.

4.1.2 HEIs shall charge fees in advance only for the semester/year in which a student is to engage in academic activities. Collecting advance fees for the entire programme of study or for more than one semester/year in which a student is enrolled is strictly prohibited.

4.1.3 If a student chooses to withdraw from the programme of study in which he/she is enrolled, the institution concerned shall follow the following five-tier system for the refund of fees* remitted by the student.

S. No	Percentage of Refund of fees*	Point of time when notice of withdrawal of admission is received in the HEI
(1)	100%	15 days or more before the formally-notified last date of admission
(2)	90%	Less than 15 days before the formally-notified last date of admission
(3)	80%	15 days or less after the formally-notified last date of admission
(4)	50%	30 days or less, but more than 15 days, after formally-notified last date of admission
(5)	00%	More than 30 days after formally-notified last date of admission

NOTE : *The HEI concerned shall deduct an amount not more than 5% of the fees paid by the student, subject to a maximum of Rs. 5,000/- as processing charges from the refundable amount.

4.1.4 In case of (1) in the table above, the HEI concerned shall deduct an amount not more than 5% of the fees paid by the student, subject to a maximum of Rs. 5,000/- as processing charges from the refundable amount.

4.1.5 Fees shall be refunded by all HEIs to an eligible student within fifteen days from the date of receiving a written application from him/her in this regard.

4.2 Verification and Non-retention of Students' Academic and Personal certificates

4.2.1 No HEI shall insist upon a student to submit the original academic and personal certificates, like, mark-sheets, school leaving certificates and other such documents, at the time of submitting admission form, but the submission of self-attested copies thereof shall be mandatory.

4.2.2 HEIs shall physically verify the originals at the time of admission of the student in his/her presence and return them immediately after satisfying themselves about their authenticity, keeping the attested copies for their record.

4.2.3 The self-attested certificates of students shall be held valid and authentic by institution concerned and/or the affiliating university for all purposes and administrative requirements and should there be a need for physical verification at any time during the course of the programme of study, such verification shall be undertaken and the original certificates thus used for verification shall be returned immediately to the student concerned.

4.2.4 Taking the certificates into institutional custody under any circumstance or pretext is strictly prohibited.

4.2.5 In case of any suspicion over the authenticity or genuineness of a certificate, reference may be made to university or the Board which issued the certificate to the student and the admission be subjected to the authentication, but original certificate shall not be retained by the HEI under any circumstance.

4.3 Grievance Redressal Mechanism (GRM)

4.3.1 All HEIs shall mandatorily have a “Grievance Redressal Mechanism” (GRM) as mandated by UGC (Grievance Redressal) Regulations, 2012, as amended from time to time, to address and effectively resolve complaints, representations and grievances related to any of the issues mentioned in this Notification.

4.3.2 The GRM shall be available on HEI website.

4.3.3 HEIs shall ensure that all grievances received are addressed as deemed fit within 30 days.

5. Punitive Actions by Commission against defaulting HEIs

The Commission, in respect of any HEI which contravenes or fails to comply with the provisions of this Notification, shall proceed to take one or more of the following actions, namely:-

- (a) withdrawal of declaration of fitness to receive grants under Section 12B of the UGC Act, 1956;
- (b) withholding any grant allocated to the HEI;
- (c) declaring the HEI ineligible for consideration for any assistance under any of the general or special assistance programs of the Commission;
- (d) informing the general public, including potential candidates for admission, through a notice displayed prominently in the newspapers or other suitable media and posted on the website of the Commission, about the non-compliance by the HEI concerned;
- (e) recommend to the affiliating university for withdrawal of affiliation, in case of a college / institute;
- (f) recommend to the Central Government for withdrawal of declaration as Institution deemed to be university, in case of an institution deemed to be university;
- (g) recommend to the appropriate State Government for appropriate necessary action in case of a university established or incorporated under a State Act;

- (h) taking such other action within its powers as the Commission may deem fit.

Provided that no action shall be taken by the Commission under this Notification unless the HEI has been given an adequate opportunity of being heard.


(Rajnish Jain)
Secretary

Remarks:

- a) On payment of the fees and upload of requisite documents, the provisional admission will be completed, and candidate will be informed accordingly. Fee is accepted in Demand Draft mode on any nationalized bank. University/Institute will accept fees by Online/Net Banking/NEFT/RTGS mode also.
- b) At the time of admission, a candidate has to pay library deposit. This deposit shall be refunded upon completion of the course.
- c) 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 list. However, if candidate is unable to report in person, he/she can depute a representative with an authority letter signed by the candidate (appended in this brochure) along with requisite documents under sec. 12 above and Demand Draft of the fees.
- d) There are few seats available in 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 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.

Hostel facility:

If you desire to have hostel accommodation, limited hostel accommodation is available on the campus both for boys and girls. The same will be allotted on first come first served basis. The hostel room rent and other charges will have to be paid at the time of admission only. There are different hostels for girls and boys each having different fee at pune campus. The details are given below:



Sr. No.	Name of Hostel	Demand Draft in favour of
1.	Boys Hostel, Pune-43	Warden Bharati Vidyapeeth Student Hostel, Pune -43 Contact Numbers 020-24378073
2.	New Boys Hostel, Pune-43	Warden BVDU Medical College New Boys Hostel, J Plot, Pune -43 Contact Numbers 020-24374631
3.	Girls Hostel, Pune-43	Warden, Bharati Vidyapeeth Ladies Hostel, Pune-43 Contact Numbers 020-24374631
4.	Girls Hostel (New), Non-AC Double Bed	Warden, Bharati Vidyapeeth New Ladies Hostel, Pune-43 Contact Numbers 020-24370923
5.	Girls Hostel (New), AC Double Bed	
6.	Girls Hostel (New), Non-AC Single Bed	
7.	Girls Hostel (New), AC Single Bed	

Please Note - For more details regarding Hostel fee and other facility contact on above telephone numbers. You should bring Demand Draft for the hostel of your choice. Cash or cheque will not be accepted.

15. 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 College forthwith without any notice by the Principal of the College.

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 forthwith. The fees will be forfeited and he/she may be expelled from the College 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:-

- " 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.
- The information given by me in my application is true to the best of my knowledge and belief.
- I have not been debarred from appearing at any examination conducted by any Government constituted or Statuary autonomous examination authority in India.
- I fully understand that the Director of the Institute will have right to expel, rusticate me from the College 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 College/ University and in the undertaking given above."

16. MISCELLANEOUS:

The candidates are informed that the medium of instruction, for all programmes is English.

- At the time of seeking admissions, a candidate will be provisionally admitted to Programme at the College subject to the production of the Provisional Eligibility Certificate from the University.
- The College 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 College.
- The Attention of the candidates is particularly invited to the provisions of rules regarding the eligibility of candidates for admission to the **B.TECH. (ENGINEERING)** Programme. If at any stage it is found that a candidate is not eligible either for admission to CET (ENGINEERING) or B.TECH. (ENGINEERING) Programme, his/her candidature and admission even if granted provisionally will be cancelled forthwith.
- 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.

Court Jurisdiction

Any legal matters arising out of the entire admission process through Common Entrance Test conducted by Bharati Vidyapeeth (Deemed to be University) , Pune-30 i.e. **CET (Engineering)-2021** will be in the jurisdiction of courts of Pune, Maharashtra State.

Recommended Syllabus For CET (Engineering)-2021

XI - MATHEMATICS – PART-I

1. Angle and its Measurement	Directed Angles, Definition , Types of Angles (Zero angle, One rotation angle, Straight angle, Right angle, Angle in standard position, Angle in a quadrant, Quadrantal angles, Co-terminal angles), Measures of angle (Degree measure, Radian measure), Theorem : $\pi^{\circ}=180^{\circ}$, Arc Length And Area Of A Sector ($A=1/2 r^2 \theta$, $S=r\theta$). .
2. Trigonometry - I	Introduction, Definition of trigonometric ratio's, Trigonometric functions with the help of a circle, Sign of Trigonometric functions in different quadrants, Trigonometric functions of specific angles, Trigonometric functions of negative angles, Fundamental identities, Domain and range of trigonometric functions, Periodicity of Trigonometric functions, Graphs of Trigonometric functions (sine , cosine, tangent, ...), Polar Co-ordinate system.
3. Trigonometry - II	Definition Compound angle, Theorem's ($\cos(A-B)$, $\cos(A+B)$, $\sin(A-B)$, $\sin(A+B)$, $\tan(A+B)$, $\tan(A-B)$), Results ($\cot(A+B)$, $\cot(A-B)$), Trigonometric functions of Allied angles, Trigonometric functions of Multiple angles (Double angle, Triple angle) , Factorization formulae (conversion of sum or difference into product, conversion of product into sum or difference), Trigonometric functions of angles of a triangle.
4. Determinant and Matrices	Introduction, Value of Determinant of order 2, Determinant of order 3 definition, Expansion of Determinant of order 3 (6 ways), Minors and cofactors of elements of determinants, Expansion of Determinant by using Minors and cofactors of any row/column, Properties of determinant, Applications of Determinant (Cramer's Rule, Consistency of three equations in two variables, Area of triangle and collinearity of three points). Introduction to matrices, Definition , Types of matrices, Algebra of matrices (Equality of matrices, Multiplication of matrix by a scalar, Addition of matrices, Multiplication of two matrices), Properties of transpose of a matrix.

5. Straight Line	Definition of locus, Equation of locus, Shift of origin, Straight Line : Inclination of line , Slope of a line, Perpendicular lines, Theorem : $m_1 m_2 = -1$, Angle between intersecting lines Theorem, Equation of line in standard forms (Point slope-form, Slope-intercept form, Two-points form, Double-intercept form, Normal form), General form of equation of line, Point of intersection of lines, The distance of the origin from a line, The distance of the point from a line, The distance between two parallel lines Theorem, Family of lines.
6. Circle	Definition , Different forms of equation of a circle (Standard form, Centre-radius form, Diameter form, General equation of a circle, Parametric form of a circle, Tangent (The equation of tangent to a standard circle, Equation of tangent in parametric form, Condition of tangency, Tangents from a point to the circle) , Director Circle.
7. Conic Sections	Double cone, Definition of conic section and its equation, Some useful terms of conic section, Parabola (Standard equation of the parabola, Tracing of the parabola, some results (Focal distance, Length of latus rectum), Some other standard forms of parabola, Parametric expressions of standard parabola, General forms of the equation of a parabola, Tangent at a point on a parabola, Condition of tangency, Tangents from a point to a parabola), Ellipse (Standard equation of ellipse, Some results , Special cases of an ellipse, Tangent to an ellipse, condition for tangency, Tangents from a point to the ellipse, Auxiliary circle, director circle of the ellipse), Hyperbola (Standard equation of the hyperbola, useful terms, Some results, Parametric equation of the hyperbola, Other standard form of hyperbola, Tangent to a hyperbola, Auxiliary circle, Diameter circle).
8. Measures of Dispersion	Range, Variance, Standard deviation (For different data), Change of origin and scale, Standard deviation for combined data, Coefficient of variation.
9. Probability	Basic terminologies (Random experiment , outcome, sample space, Event, Favourable outcome, Types of event, Algebra of Events, Equally likely outcome, Probability of an event, Properties of probability, Addition theorem for two events, Conditional Probability, Multiplication theorem, Independent events, Bayes' theorem, Odds (ratio of two complementary probabilities)

XI – MATHEMATICS – PART-2

1. Complex Numbers	Definition of complex number, Algebra of complex Numbers (Equality of two complex numbers, Conjugate of a complex number, Addition of complex numbers, Scalar multiplication Subtraction of two complex numbers, Multiplication of two complex numbers, powers of i , Division of complex numbers), Square root of a complex number, Solution of quadratic equation in complex number, Argand Diagram, Modulus of z , Argument of z , Properties of modulus, argument, Polar form of complex number, Exponential form, De Moivres Theorem, Cube root of unity and its properties.
2. Sequence And Series	Definition and types of sequence, Arithmetic Progression, Geometric progression, sum of first n terms of a G.P, sum of infinite terms of G.P, Expressing recurring decimal as rational number, Harmonic progression, Types of means, Arithmetico geometric progression, Properties of summation, power series.
3. Permutations And Combination	Fundamental principles of counting, Factorial notation and its properties, Permutations (when all objects are distinct, when repetitions are allowed, when some objects are identical, circular permutation, Properties of permutations), Combinations (Definition, Theorem : nCr , Properties of combination).
4. Methods of Induction and Binomial Theorem	Principle of mathematical induction, Binomial theorem for positive integral index, General term and middle term of $(a+b)^n$, Binomial theorem for negative index or fraction, Binomial coefficients.
5. Sets and relations	Set (Definition, Representation of set, number of elements of set, Types of sets, Operations on sets, Intervals, maximum and minimum of sets), Relations (ordered pair, Cartesian product of two sets, Definition of relation, domain, codomain, range, Binary relation on a set, Identity relation, Types of relations, Congruence modulo).
6. Functions	Definition of function, domain, codomain, Types of function, Representation of function, Graph of function, Value of function, Algebra of functions.
7. Limits	Definition of limit of function, Algebra of limits, Theorem , method of factorization, method of rationalization, Limit of trigonometric function, Substitution method, Limits of exponential and logarithmic functions, Limit at infinity.

8.	Continuity	Continuity of a function at a point, Definition of continuity, Properties of continuous function, Types of discontinuities, continuity over an interval, The intermediate value theorem for continuous functions.
9.	Differentiation	Definition of derivative and differentiability, Derivative by method of first principle, Derivative of some standard functions, Relationship between differentiability and continuity, Rules of differentiation.

XII MATHEMATICS AND STATISTICS PAPER- I

1. Mathematical Logic	Statement, Truth Value of statement, Logical connectives, Simple and Compound statement : Conjunction, Disjunction, Conditional, Bi-conditional and negation of a statement, Statement Pattern, Logical Equivalence, Tautology, Contradiction, Contingency, Quantifiers, Quantified Statements duals, Negation of Compound statement, Converse, Inverse and Contra positive Implication, Application of Logic to switching circuit
2. Matrices	Elementary transformation : A) Interchange of any two rows or any two columns B) Multiplication of the elements of any row or column by a non zero scalar C) Adding the scalar multiples of all the elements of any row(column) to corresponding elements of any other row(column), Inverse of a matrix: Uniqueness of Inverse of a matrix, Inverse of a non singular matrix by elementary transformation, Inverse of a square matrix by adjoint method, Application of matrices, Method of inversion, Method of reduction
3. Trigonometric functions	Trigonometric equations and their solutions, general solutions, solution of triangle:- polar co-ordinates , relation between Cartesian and the polar co-ordinates, solving a triangle, sine rule, cosine rule, projection rule, Application of sine rule, cosine rule, projection rule. 1) half angle formulae 2) Heron's formula. 3) Napier's analogy, Inverse trigonometry function, Principal values of inverse trigonometric functions. Properties of inverse trigonometric functions. functions
4. Pair of straight line	Combine equation of a pair of lines(Theorem), Homogeneous equation of degree two, Angle between lines represented by $ax^2+2hxy+by^2=0$, General second degree equation in x and y.
5. Vector	Scalar quantity, vector quantity, representation of vector, magnitude of a vector, types of vector. 1) zero vector 2) unit vector 3) co-initial and co-terminus vector 4) equal vectors 5) Negative of a vector 6) collinear vectors. 7) Free vectors 8) Localized vector. Algebra of vectors:- 1) scalar multiplications 2) Addition of two vectors. 3) subtraction of two vectors. 4) coplanar vectors. 5) vector in two dimensions, Vector in two dimensions (2-D), Three dimensions(3-D) co-ordinate system, component of vector, position vector of a point P(x,y,z) in space, component form of \vec{r} vector

joining two points, section formula, product of vectors, angle between two vectors, scalar product of two vectors, finding angle between two vectors, projections, direction angle and direction cosines, vector product of two vectors, scalar triple product and properties, vector triple product and properties.

6.	Line and plane	Vector and Cartesian equation of line, equation of a line passing through a given point and parallel to given vector, equation of a line passing through given two points, Distance of a point from a line, skew lines, distance between skew lines, distance between parallel lines, equation of plane, equation of plane passing through a point perpendicular to a vector, Cartesian form, a vector equation of the plane passing through point $A(\vec{a})$ and parallel to \vec{b} and \vec{c} , the vector equation of plane passing through three non-collinear points, the normal form of equation of plane, angle between planes, angle between a line and a plane, co-planarity of two lines, distance of a point from a plane.
7.	Linear Programming	Definition, convex set, Linear programming problem, meaning of Linear programming problem, meaning of L.P.P. Mathematical formulation of the L.P.P. Formal definitions related to L.P.P., Solution of L.P.P., Optimum feasible solution, corner-point method

XII MATHEMATICS AND STATISTICS PAPER- II

1.	Differentiation	Definition, Rules of Differentiation, Derivatives of Composite Functions (Theorem), Geometrical meaning of Derivatives, Derivatives of Inverse Functions(Theorem), Derivatives of Standard Inverse Trigonometric Functions, Logarithmic Differentiation, Implicit Functions, Derivatives of Parametric Functions(Theorem), Differentiation of one function with respect to another function, Higher Order Derivatives, Successive Differentiation (or nth order derivatives) of some Standard Function
2.	Applications of Derivatives	Application of Derivative in Geometry, Derivative as a Rate Measure, Velocity, Acceleration and Jerk approximations, Rolle's Theorem/Rolle's Lemma, Lagrange's Mean value Theorem(LMVT), Increasing and Decreasing Functions, Maxima and Minima, First Derivative Test, second Derivative Test

3.	Indefinite Integration	<p>Definition, Elementary Integration Formulae, Method of Integration, Integration by Substitution(theorem), Integrals of Trigonometric Functions, Some Special Integrals, Integrals of the form</p> $\int \frac{px+q}{\sqrt{ax^2+bx+c}} dx \text{ and }$ $\int \frac{(px+q)}{ax^2+bx+c} dx \text{ and Integration by parts (Theorem), Integral of the type}$ $\int e^x[f(x)+f'(x)]dx = e^x f(x) + c$ <p>Integration by Partial Fraction</p>
4.	Definite Integration	Definite Integral as Limit of Sum, Fundamental Theorem and Properties of Integral Calculus,
5.	Application of Definite Integral	Area under a curve, Area between two curves
6.	Differential Equations	Definition, Order and Degree of Differential Equation, Formation of differential equation, Solution of differential equation, Homogeneous differential equation, Linear Differential Equation, Application of Differential Equation: Population growth and growth of bacteria, Radioactive decay, Half life period, Newton's Law of Cooling, Surface Area
7.	Probability Distributions	Random Variables, Types of Random Variables: Discrete Random Variables, Continuous Random Variables, Probability Distribution of discrete Random Variable, Probability Mass Function(p.m.f), Cumulative Distribution Function(c.d.f.), Expected Value and variance of a Random Variable, Probability distribution of a continuous Random Variable, Probability Density Function, Cumulative Distribution Functions(c.d.f.)
8.	Binomial Distribution	Bernoulli Trail, Binomial Distribution, Mean and Variance of Binomial Distribution(Formulae without proof)

PHYSICS

CONTENTS CLASS XI SYLLABUS

1. Units and Measurements

- System of units , Measurement of length , Measurement of mass , Measurement of time , Dimensions and dimensional analysis , Accuracy , Precision , and uncertainty in measurement , Errors in measurements , Significant figures , order of magnitude .

2. Mathematical Methods

- Vector analysis : - Scalars , Vectors , Vector operations (multiplication , addition , subtraction of vectors Triangle law for vector addition , Law of parallelogram of vectors), Resolution of vectors , Multiplication of vectors (scalar product , vector product) , Introduction of calculus .

3. Motion in Plane

- Rectilinear motion (Displacement , path length , average velocity , average speed , instantaneous speed , acceleration , relative velocity), Motion in two dimensions – Motion in plane (average and instantaneous velocity , acceleration . Equation of motion for object travelling in plane with uniform acceleration . relative velocity , Projectile motion) . Uniform circular motion : period , radius vector , angular speed , centripetal acceleration , conical pendulum.

4. Law of Motion

- Aristotle's Fallacy , Newton's laws of motion , Inertial and non-inertial frame of reference . Types of forces (fundamental forces in nature , contact and non-contact forces , real and pseudo forces , conservative and non-conservative forces , concept of potential energy , work done by variable force) . Work – Energy theorem . Principle of conservation of linear momentum . Collisions (elastic and inelastic collisions, coefficient of restitution) . Impulse of force. Rotational analogue of force – moment of force or torque, couple and its torque , mechanical equilibrium , centre of mass , centre of gravity .

5. Gravitation

- Kepler's law , Universal law of gravitation , Measurement of gravitational constant , Acceleration due to gravity , Variation in ' g ' with altitude , depth , latitude and shape Gravitational potential and potential energy , Escape velocity , Earth Satellite , Projection of satellite , Critical velocity , Weightlessness in satellite , Time period of satellite , Binding energy of an orbiting satellite .

6. Mechanical Properties of Solids

- Elastic behavior of solids , Stress and strain , Hooke's law Elastic modulus , Stress – Strain curve , Strain energy , Hardness , Friction in solids (static friction , kinetic friction , rolling friction) .

7. Thermal Properties of Matter

- Temperature and Heat , Measurement of temperature , Absolute temperature and Ideal gas equation , Thermal expansion (linear expansion , areal expansion , volume expansion , relation between coefficients of expansion , Specific heat capacity , Colorimetry , Change of state , Heat transfer (conduction , convection , radiation) , Newton's laws of cooling.

8. Sound

- Waves-Types of waves, Common properties of all waves, Transverse Waves and Longitudinal waves , Mathematical expression of waves , Speed of travelling waves , Newton's Formula for velocity of sound, Laplace's correction , Factors affecting speed of the sound , Principle of superposition of the waves , Echo, reverberation and acoustics , Qualities of sound , Doppler effect .

9. Optics

- Nature of light, Ray Optics , Cartesian Sign convention , Reflection (Reflection from Curved mirrors ,Spherical abbreviation) Refraction , Total internal reflection and its applications , Refraction at spherical surface and lenses (Refraction at single spherical surface, Lens maker's equation) , Dispersion of light and prism (Prism formula , deviation of light through thin prism , angular dispersion , dispersive power) , Natural phenomena due to sunlight , Defects of lenses (Chromatic abbreviation , Spherical abbreviation) , Optical instruments – Magnifying power of simple microscope , compound microscope , telescope .

10. Electrostatics

- Electric charges , basic properties of the electric charges , Coulomb's law , Principle of superposition , Electric field , Electric lines of force , Electric flux , Gauss Law , Electric dipole (Couple acting on the electric dipole in the uniform electric field , Electric intensity at a point due to electric dipole) , Continuous charge distribution .

11. Electric Current through conductors

- Electric current , Flow of the current through the conductor , Drift Speed , Ohm's Law , Electrical energy and power , Registers Rheostat , Combination of the registers , Specific Resistance (Resistivity) , Variation of the resistance with the temperature , Electromotive force , Cell's in series , Cell's in parallel , Types of cells .

12. Magnetism

- Magnetic lines of force and magnetic field , Bar magnet(Magnetic field due to bar magnet at a point along its axis and along it's equator , Magnetic field due to bar magnet at an arbitrary point) , Gauss law of magnetism , Earth's magnetism.

13 Electromagnetic waves and Communication system

- EM wave , Characteristics of EM waves , Electromagnetic spectrum – Properties and uses of Radio waves , Microwaves , Infrared waves , Visible Light , Ultraviolet rays , X-rays , Gamma Rays .

Propagation of EM Waves – Ground wave propagation , Space wave propagation , Sky wave propagation .

Introduction to communication system , Modulation .

14. Semiconductors

- Electrical conduction in solids , Band theory of solids – Brief introduction , Intrinsic Semiconductor , Extrinsic semiconductor , P-N junction ,P-N junction diode .Semiconductor devices , Application of semiconductors and P-N junction diode .

15. Magnetic Field due to Electric Current

- Magnetic force , Cyclotron motion , Cyclotron accelerator, Helical motion , Magnetic force on wire carrying current – 1) Straight wire 2) Arbitrarily shaped wire. Force on a closed circuit in a magnetic field , Torque on current loop , Moving coil galvanometer , Magnetic dipole moment , Magnetic potential energy of dipole , Magnetic field due to current (Biot – Savart law), Force of attraction between two long parallel wires , Magnetic field produced by current in circular arc of wire, Axial magnetic field produced by current in circular



loop , Magnetic lines for current loop , Ampere's Law , Magnetic field of Solenoid and Toroid .

16. Magnetic Materials

- Torque acting on a magnetic dipole in uniform magnetic field , Location of magnetic poles of current carrying loop, Origin of magnetism in materials , Magnetization and Magnetic intensity , Magnetic properties of materials, Hysteresis , Permanent magnet and electromagnet , Magnetic shielding .

17. Electromagnetic Induction

- Faraday's experiment in connection with generation of electric current , Faraday's laws of electromagnetic induction , Lenz's law and its applications , Flux of field , Motional electromotive force , Induced emf in stationary coil in a changing magnetic field , Generators , Back emf and back torque , Induction and energy transfer , Eddy currents , Self- inductance , Energy stored in magnetic field , Energy density of magnetic field , Mutual inductance , Transformer .

18. AC Circuits

- AC generator, Average and RMS values, Phasors, Different types of AC circuits: - AC voltage applied to resistor, AC voltage applied to an inductor, AC voltage applied to capacitor, AC circuit containing resistance, inductance, capacitance in series (LCR circuit), Power in AC circuit, LC oscillations, Electric resonance,

Q- Factor, Choke coil.

19. Dual Nature of Radiation and Matter

- Photoelectric effect, (Experiment and its observations), Failure of wave theory to explain observations from experiments on photoelectric effect, Einstein's postulate of quantization of energy and photoelectric equation, Wave-particle Duality of electromagnetic radiation, Photo Cell, De Broglie Hypothesis, Davisson an Germer experiment, Wave-particle Duality of matter.

20. Structure of Atoms and Nuclie

- Geiger – Marsden experiment , Rutherford's atomic model , Atomic spectra , Bohr's atomic model , Expressions for radius of orbit , energy of electron ,Bohr formula , De Broglie's explanation , Atomic nuceus , nuclear forces , Nuclear binding energy , Radioactive decays , Law of radioactive decay , Half life of radioactive material , Average life of radioactive species , Nuclear energy (Nuclear fission , Nuclear fusion).

21. Semiconductor Devices

- P-N junction diode as a rectifier , Filter circuits , Special purpose junction diodes : - Zener diode , Photo diode , Solar cell , Light emitting diode (LED), Bipolar junction transistor , Transistor configuration , Transistor as an amplifier , Logic gates .

CONTENTS OF CLASS XII SYLLABUS

1. Rotational Dynamics

- Circular motion: Kinematics of circular motion ,Dynamics of circular motion (Centripetal force ,Centrifugal force) Applications of UCM: Vehicle along horizontal circular track, Vehicle on banked road, Conical pendulum : Period of revolution of bob , Frequency of revolution. Vertical circular motion.
- Moment of inertia : M.I. as an analogous quantity for mass ,Rotational K.E. , angular momentum , torque in terms of M.I. , M.I. of ring , disc , solid sphere , thin uniform rod , circular cone , uniform plate , uniform spherical shell , radius of gyration , Theorem of parallel axes and perpendicular axes , conservation of angular momentum , Rolling motion : Linear acceleration and speed while pure rolling down an inclined plane.

2. Mechanical Properties Of Fluids

- Fluid – Properties of fluid , Pressure : Pressure due to liquid column , Absolute pressure and Gauge pressure , Hydrostatic paradox , Pascal’s Law , Applications of Pascal’s Law , Measurement of pressure (mercury barometer , open tube manometer). Surface Tension , Surface energy , Relation between S.T. and surface energy , Angle of contact , Effect of impurity and temperature on S.T. Excess pressure across free surface of liquid , Formation of drop and bubble. Capillary action Expression for capillary rise . Fluids in motion , Critical velocity and Reynold number , viscosity , Stokes’ law , Equation of continuity , Bernoulli equation and its applications.

3. Kinetic Theory Of Gases And Radiation

- Behaviour of gas , Ideal gas and real gas , Mean free path , Pressure of ideal gas , Interpretation of temperature in kinetic theory , Law of equipartition of energy , Degrees of freedom , Specific heat capacity (Mayer’s relation) , Absorption , reflection , and transmission of heat radiation , Perfect black body (Ferry’s black body). Emission of heat radiation . Kirchhoff’s law of heat radiation and its theoretical proof. Spectral distribution of black body radiation. Wien’s displacement law , Stefan-Boltzmann law of radiation.

4. Thermodynamics

- .Thermal equilibrium , Zeroth law of thermodynamics , Heat , Internal Energy , Work . First law of thermodynamics (work and heat related), Thermodynamic state variables , Thermodynamic process , Classification of thermodynamic processes (Reversible and Irreversible process) , Assumptions of thermodynamic process. Thermodynamics of isothermal process , Isobaric process , Isochoric process , Adiabatic process, Cyclic process , Free expansion. Heat Engine , Heat engine cycle and P- V diagram , Refrigerators and heat pumps . Second law of thermodynamics , Carnot cycle and Carnot engine , Carnot refrigerator , Second law of thermodynamics and Carnot cycle , Sterling cycle .

5. Oscillations

- Periodic motion , Linear S.H.M. , Differential equation of S.H.M. , Acceleration , velocity and displacement of S.H.M. and their expressions , Amplitude , period and frequency of S.H.M., Reference circle method , Phase in S.H.M., Graphical representation of S.H.M. , Composition of two S.H.M. s having same period and along the same path , Energy of particle performing S.H.M., Simple pendulum , Second’s pendulum , Angular S.H.M. and its differential equation , Magnet vibrating in uniform magnetic field , Damped oscillations , Free oscillations , Forced oscillations and resonance .

6. Superposition of waves

- Progressive wave , Reflection of waves , Superposition of waves , Stationary waves , Properties of stationary waves , Free and Forced vibrations , Harmonics and Overtones :- Vibrations of air column in pipe closed at one end and in pipe open at both ends , Vibrations produced in string , Laws of vibrating string , Sonometer(verification of first , second and third law of vibrating string) , Beats (analytical method to determine beat frequency) , Applications of beats , Characteristics of sound (loudness , pitch , quality or timbre) , Musical instruments.

7. Wave Optics

- Nature of light:- Corpuscular nature , wave nature , dual nature of light . Huygens’ wave theory , Huygens’ principle , Reflection of light at plane surface , Refraction of light at plane boundary between two media , Dependence of wavelength on refractive index of medium , Polarization , Brewster’s Law(polarization by reflection) , polarization by scattering , Interference : Young’s double slit experiment , Conditions for steady

interference , Method for obtaining coherent sources Optical path , Diffraction of light : Fresnel and Fraunhofer diffraction , Fraunhofer diffraction at a single slit , Double slit diffraction pattern , Resolving power – Rayleigh's Criterion for resolving power , Resolving power of microscope , Resolving power of telescope.

8. Electrostatics

- Applications of Gauss' Law , Electric potential and potential energy , Electric potential due to point charge , electric dipole and system of charges , Equipotential surfaces , Electrical energy of two point charges and of a dipole in an electrostatic field , Conductors and insulators , free charges and bound charges inside a conductor , Dielectrics and electric polarization. Capacitors and capacitance , Combination of capacitors in series and parallel , Capacitance of parallel plate capacitor with and without dielectric medium between the plates .Displacement current , Energy stored in capacitor , Van de Graaff Generator .

9. Current Electricity

- Kirchhoff's Laws of Electrical Network , Wheatstone Bridge , Application of Wheatstone bridge :- Metre bridge , Kelvin's method , Post office box . Potentiometer:- Use of potentiometer (Compare emf of cells , To find internal resistance of cell) , Application of potentiometer(Voltage divider , Audio control, potentiometer as a sensor) , Advantages of potentiometer over voltmeter , Galvanometer :- Galvanometer as an ammeter , Galvanometer as a voltmeter .

10. Magnetic Field due to Electric Current

- Magnetic force , Cyclotron motion , Cyclotron accelerator, Helical motion , Magnetic force on wire carrying current – 1) Straight wire 2) Arbitrarily shaped wire. Force on a closed circuit in a magnetic field , Torque on current loop , Moving coil galvanometer , Magnetic dipole moment , Magnetic potential energy of dipole , Magnetic field due to current (Biot – Savart law), Force of attraction between two long parallel wires , Magnetic field produced by current in circular arc of wire, Axial magnetic field produced by current in circular loop , Magnetic lines for current loop , Ampere's Law , Magnetic field of Solenoid and Toroid .

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- AC generator, Average and RMS values, Phasors, Different types of AC circuits: - AC voltage applied to resistor, AC voltage applied to an inductor, AC voltage applied to capacitor, AC circuit containing resistance, inductance, capacitance in series (LCR circuit), Power in AC circuit, LC oscillations, Electric

resonance,

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15. Structure of Atoms and Nuclei

- Geiger – Marsden experiment, Rutherford's atomic model, Atomic spectra, Bohr's atomic model, Expressions for radius of orbit, energy of electron, Bohr formula, De Broglie's explanation, Atomic nucleus, nuclear forces, Nuclear binding energy, Radioactive decays, Law of radioactive decay, Half life of radioactive material, Average life of radioactive species, Nuclear energy (Nuclear fission, Nuclear fusion).

16. Semiconductor Devices

- P-N junction diode as a rectifier, Filter circuits, Special purpose junction diodes: - Zener diode, Photo diode, Solar cell, Light emitting diode (LED), Bipolar junction transistor, Transistor configuration, Transistor as an amplifier, Logic gates.

CHEMISTRY

CONTENTS OF CLASS XI SYLLABUS

1. Some basic Concepts of chemistry

- Nature of chemistry, Properties of matter and their measurement, laws of chemical combination, Dalton's Atomic Theory, Atomic and molecular masses, mole concept and molar mass

2. Introduction to analytical chemistry

- Importance of analytical chemistry, analysis, mathematical operation and error analysis, determination of molecular formula, chemical reactions and stoichiometric calculations, limiting reagent, concentration of solution, use of graph in analysis

3. Basic Analytical Techniques

- Purification of solids, Distillation, solvent extraction, chromatographic techniques,

4. Structure of Atom

- Subatomic particles, Atomic number, atomic mass number, Isotopes, Isobars, Isotones, Drawbacks of Rutherford atomic model, Developments leading to Bohr's atomic model, Bohr's model for hydrogen atom, Quantum mechanical model of atom,

5. Chemical Bonding

- Kossel and Lewis approach to chemical bonding, Steps to write Lewis dot structures, Formal charge, Valence shell electron pair repulsion theory, Valence bond theory, Hybridization, Molecular orbital theory, Parameters of covalent bond, Dipole moment, resonance

6. Redox Reactions

- Classical ideas of redox reactions, Oxidation number, Balancing of redox reactions, Redox reaction and Electrode potential,
- 7. Modern Periodic Table**
- Introduction, Structure of modern periodic table, Periodic table and electronic configuration, Blockwise characteristics of elements, Periodic trends in elemental properties
- 8. Element of Group 1 and Group 2**
- Hydrogen: Occurrence, Position, Isotopes of Hydrogen, Preparation, Properties, Uses. Alkali metals and element of group 2, Some important compounds of element of S Blocks
- 9. Elements of groups 13,14,15**
- Introduction, Electronic configuration of elements of groups 13,14,15, Chemical properties of elements of groups 13,14,15, Catenation, Allotropy, Molecular structure of some important compounds of groups 13,14,15 elements, Chemistry of notable compounds of elements of group 13,14,15
- 10. States of Matter: Gaseous and Liquid States**
- Introduction, Intermolecular forces, Characteristic properties of gases, Gas Laws, Ideal gas equations, Kinetic molecular theory of gases, Deviation from ideal behavior, Liquefaction of gases and critical constant, Liquid state
- 11. Adsorption and Colloids**
- Adsorption, Types of adsorption, Factors affecting adsorption of gases on solids, Adsorption isotherm, Applications of adsorption, Catalysis, Adsorption theory of heterogeneous catalysis, Colloids
- 12. Chemical Equilibrium**
- Reversible reactions, Equilibrium in physical processes, Equilibrium in chemical process, Law of mass action and equilibrium constant, Homogeneous and Heterogeneous equilibria, Characteristics of equilibrium constant, Application of equilibrium constant, Le Chatelier's Principle, Industrial application
- 13. Nuclear chemistry and Radioactivity**
- Similarity between solar system and structure of atom, Classification of nuclides, Nuclear stability, Radioactivity, Radioactive decay, Modes of decay, Nuclear reactions, Applications of radio isotopes
- 14. Basic principles of Organic Chemistry**
- Structural representation of organic molecules, Classification of organic compounds, Nomenclature of organic compounds, Isomerism, Theoretical basis of organic reactions
- 15. Hydrocarbons**
- Alkanes: Isomerism, Conformation, preparation, Physical properties, chemical properties, uses. Alkene: Isomerism, preparation, physical properties, chemical properties, uses. Alkynes: Isomerism, preparation, physical properties, chemical properties, uses. Aromatic Hydrocarbons (Benzene): Structure, Preparation, physical properties, chemical properties. Huckel Rule, Directive influence of a functional groups in monosubstituted benzene, Carcinogenicity and Toxicity
- 16. Chemistry in Everyday Life**
- Basics of food chemistry, Compounds with Medicinal properties, Cleansing agents.

CONTENTS OF CLASS XII SYLLABUS

1. Solid State

- Types of solids, Classification of crystalline solids, Crystal structure, Cubic system, Packing of particles in crystal lattice, Packing efficiency, Crystal defects, Electrical properties of solids, Magnetic properties of solids

2. Solutions

- Types of solutions, Capacity of solution to dissolve solute, Solubility, Vapour pressure of solutions of liquids in liquids, Colligative properties of non electrolyte solutions, Vapour pressure lowering, Boiling point elevation, Depression in freezing point, Osmotic pressure, Colligative properties of electrolytes

3. Ionic Equilibria

- Types of electrolyte, Acids and Bases, Ionisation of acids and bases, Autoionisation of water, pH scale, Hydrolysis of salts, Buffer solutions, Solubility product, Common ion effect

4. Chemical Thermodynamics

- Introduction, Terms used in Thermodynamics, Nature of heat and work, Expression for pressure-volume work, Concept of maximum work, Internal energy, First law of Thermodynamics, Enthalpy, Enthalpies of physical transformations, Thermochemistry, Spontaneous process.

5. Electrochemistry

- Introduction, Electric conduction, Electrical conductance of solutions, Electrochemical cells, Electrolytic cell, Galvanic cell, Electrode potential and cell potential, Thermodynamics of galvanic cell, Galvanic cells useful in day to day life, Fuel cell, Electrochemical series.

6. Chemical kinetics

- Rate of reactions, Rate of reaction and reactant concentration, Molecularity of elementary reactions, Integrated Rate law, Collision theory of bimolecular reactions, Temperature dependence of reaction rates, Effects of catalyst on rate of reaction.

7. Elements of groups 16,17,18

- Occurrence, Electronic configuration, Atomic and physical properties, Anomalous behavior of oxygen and fluorine, Chemical properties, Oxoacids, Oxygen and compounds of oxygen, Compound of sulphur, Chlorine and compounds of chlorine, Interhalogen compounds, Compounds of Xenon.

8. Transition and Innertransition Elements

- General introduction, Position in periodic table, Electronic configuration, Trends in atomic properties of first transition series, Compounds of Mn and Cr(KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$), Common properties of d block elements, Metallurgy, Properties of f block elements

9. Coordination compounds

- Introduction, Types of ligands, Terms used in coordination chemistry, classification of complexes, IUPAC nomenclature of coordination compounds, Effective atomic number rule, Isomerism in coordination compounds, Stability of coordination compounds, Theories of bonding in complexes, Application of coordination compounds.

10. Halogen derivatives

- Classification of halogen derivatives, Nomenclature, Methods of preparation of alkyl halides, Physical properties, Optical isomerism in halogen derivatives, Chemical properties, Uses and environmental effects of

some polyhalogen compounds.

11. Alcohols, Phenols and Ethers

- Classification, Nomenclature, Methods of preparation, Physical properties, Chemical properties, Uses

12. Aldehydes, Ketones, Carboxylic Acids

- Classification, Nomenclature, Methods of preparation, Physical properties, Chemical properties

13. Amines

- Classification, Nomenclature, Methods of preparation, Physical properties, Chemical properties

14. Biomolecules Carbohydrates:

- Classifications, Nomenclature of monosaccharides, Preparation of Glucose, Structure and properties of Glucose. Proteins: alpha amino acids, Types of proteins, Structure of proteins, Denaturation of Proteins. Enzymes: Mechanism of enzyme catalysis. Nucleic acids.

15. Introduction to Polymer Chemistry

- Classification of polymers, Some important polymer, Molecular mass and degree of polymerization of polymer, Biodegradable Polymers, Commercially important polymers.

16. Green Chemistry and Nanochemistry

- Introduction, Sustainable development, Principle of green chemistry, Role of Green chemistry, Introduction to nanochemistry, Characteristic features of nanoparticles, synthesis of nanomaterial, History of nanotechnology, Application of nanomaterials, Nanoparticles and nanotechnology.

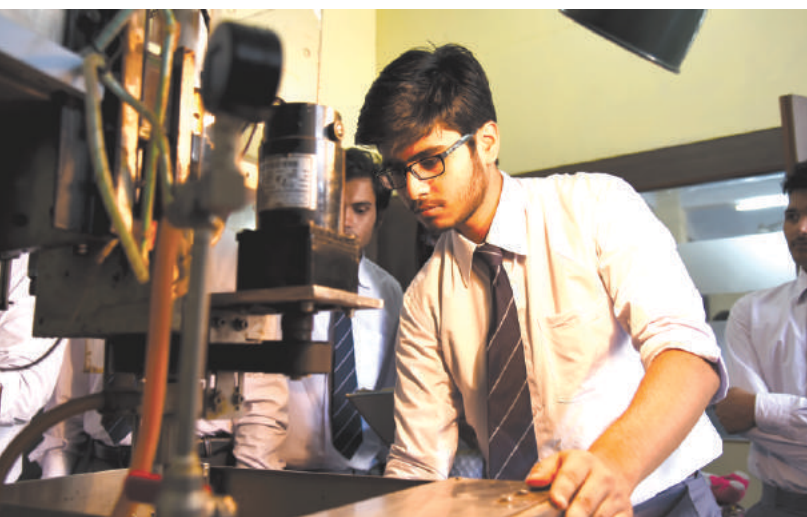
**LIST OF DOCUMENTS REQUIRED WHILE REPORTING FOR COUNSELLING
FOR ADMISSION TO FIRST YEAR OF B.Tech. COURSES
FOR CET (ENGINEERING)-2021**

At the time of counselling, you are required to submit the following documents in original. Failure to do so will result in instantaneous cancellation of your claim for admission. You are also required to submit two photocopies of each of these documents. Institute will not retain original documents

1. Your letter for Counselling
2. For a Proof of date of Birth : SSC Certificate or School/College Leaving Certificate or Certificate of Domicile/Nationality Certificate.
3. A Certificate of the Principal/Headmaster of the School for having studied for 11th and 12th standard in India.
4. Statement of marks of X std examination.
5. Statement of marks of XII std examination.
6. Transfer Certificate from the Institution in which you had studied last.
7. Migration Certificate (for students who joined a course after 12th).
8. Aadhar Card
9. Gap Certificate (if any).
10. Conduct and Character Certificate from a responsible person.
11. Caste certificate. (for SC/ST candidates only)
12. Caste validity certificate issued by competent authority. (for SC/ST candidates only)
13. Certificate of Medical Fitness.
14. Six recent passport-size photographs with your name written on backside.
15. An affidavit in the format given in Annexure III signed by you and countersigned by your parent/guardian in the presence of Notary Public on stamp paper.

Please Note:- Demand draft of Tuition fees, other fees and Hostel fees (in case you are admitted to Hostel) has to be submitted at the time of counselling and admission process.





Placement & Recruiters

Training & Placement Department

- MoU with the Prestigious Tata Consultancy Services for Prominent Recruitment Drive exclusively for BVDUCOEP students has initiated significant improvement in Placements in large numbers.
- MoU with Zensar Technologies for ESD program under CSR and Campus placement is notable achievement for the Students.
- Barclays Youth Employability Training Program under CSR helped students to expose to the new dimensions of Corporate Trainings and NASSCOM organization.

Objectives

- To organize campus interviews for final year students with industries and business houses of repute from all over India.
- To prepare students to face campus interviews by arranging training in Aptitude tests, group discussions, preparing for Technical and HR interviews through professional trainers.
- To promote career counselling by organizing guidance lectures by senior corporate personnel.

- Maintaining regular interaction with the industry through Seminars, Guest Lectures, Conferences, and Corporate Meets.
- Providing requisite training to students in the area of Personality Development and Communication Skills.

T & P Dept. Facilities: -

- Auditorium and Seminar Hall with well-equipped audio multimedia computers and LCD Projection facilities and have a sitting capacity of 200 for pre-placement presentations.
- Halls for conducting written tests and Group discussions.
- Dedicated interview cabins for conducting interviews.
- Computer Services Center to conduct online exams.
- Accommodation in the institute guest with Boarding & Lodging facilities on Demand.
- Internet, Fax, Phone, Printing Facilities for the visiting team.

Placement Record (2013-14 to 2020-21)

	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Number of Companies Visited	86	89	116	125	130	135	135	140
Number of Students Placed	459	469	478	495	575	578	660	687
Percentage of Students Placed	83.12%	81.18%	84.30%	86.16%	86.34%	86.53	86.57	87
*Maximum Salary Offered.	10.20 LPA	20.00 LPA	12.00 LPA	17.75 LPA	16.00 LPA	34.LPA	34.LPA	34.00 LPA
*Minimum Salary Offered.	3.20 LPA	3.20 LPA	3.00 LPA	3.00 LPA	3.00 LPA	3LPA	3LPA	3.00 LPA
*Average Salary offered.	6.70 LPA	11.60 LPA	7.50 LPA	10.37 LPA	9.50 LPA	18.5LPA	18.5LPA	18.5 LPA
Median Salary offered	3.5 LPA	3.61 LPA	3.75 LPA	4.0 LPA	4.63 LPA	5.10LPA	5.2LPA	5.3 LPA

Note – *Salary indicated is per annum.

Our Recruiters



Students Placed in TCS 2018-19



Students Placed in Cybage 2017-18



Students Placed in LTI 2017-18



Students Placed in TCS 2016-17



Students Placed in TCS 2015-16



Students Placed in TCS 2014-15

DECLARATION

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 studied in class XI and XII in India and have passed a qualifying examination in the subjects of Mathematics, Physics as compulsory subjects along with one of the Chemistry / Biology / Biotechnology / Technical Vocational Subject individually and have obtained at least 50% (45% in case of candidate belonging to reserved category (SC/ST) marks together in those subjects and I have also Passed in the subject of English.
- C) I have studied and understood the rules governing counselling, admission, procedure, fee structure and agree to abide by these rules.
- D) 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, dress code, 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.
- E) I will not involve myself in any action of ragging during the course of my education in this University. I understand involvement in ragging would result into cancellation of my admission to the course.

Name of the candidate :

Date :

Place :

Signature of the candidate

I, the father/mother/guardian of an applicant for admission to course 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 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

AUTHORISATION FOR REPRESENTATIVE

I,, son /daughter of, being unable to attend the counselling session for admission to the B. Tech. courses in July/August 2021, hereby authorise son/daughter of, whose photograph is affixed below and who will sign as shown below, to represent me at the counselling and on-the-spot-admission. I hereby declare that the choice of course or branch 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. (B.Tech-2021 Examination)

Place :

Date :

Reason for Absence :

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.

IMPORTANT NOTICE

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

website 1: www.antiragging.in

2: 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),
Pune, India

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 - **63** ★

● 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



Bharati Vidyapeeth
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