VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

VITEEE

VIT ENGINEERING ENTRANCE EXAMINATION

2027

ADMISSION TO
B.TECH. PROGRAMMES



PROSPECTUS

VIT - Vellore | VIT - Chennai | VIT - AP | VIT - Bhopal

vituniversity | vellore_vit | vellore-institute-of-technology | VIT_univ | Vellore Institute of Technology (VIT) | Vellore Institute of Technology

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Vellore



Chennai





VIT - AP



VIT - Bhopal

1. About VIT

Vellore Institute of Technology (VIT), evolved from the former Vellore Engineering College during 1984 and conferred the status of a Deemed-to-be University in the year 2001 by the Government of India under Sec. 3 of the UGC Act. During the four decades, VIT has emerged as an innovator in higher education, growing from 180 students to 67,000+ students. Today, VIT is amongst the most respected Universities in India, featuring top-ranked academic programmes. The principal campus of VIT is at Vellore, Tamil Nadu and off-campus at Chennai. VIT has it's institutions at Amaravati, Andhra Pradesh; Bhopal, Madhya Pradesh. The latter two campuses are State Private Universities. Eco-friendly in design and equipped with cutting-edge infrastructure, VIT provides a favorable atmosphere for learning and living. Quality in teaching-learning, research, and innovation are VIT's raison d'etre. VIT adopts student-centric culture and places importance on quality and consistency in learning, teaching, and research experiences.

2. Programmes offered

B.Tech. Aerospace Engineering [4]
B.Tech. Bioengineering [4]
B.Tech. Biotechnology [1,2,3]
B.Tech. Chemical Engineering [1]
B.Tech. Civil Engineering [1,2]
B.Tech. Civil Engineering (in collaboration with L & T) [1,2]
B.Tech. Computer Science and Engineering [1,2,3,4]
B.Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning) [1,2,3,4]
B.Tech. Computer Science and Engineering (Artificial Intelligence and Robotics) [2]
B.Tech. Computer Science and Engineering (Artificial Intelligence and Data Engineering) [1]
B.Tech. Computer Science and Engineering (Artificial Intelligence and Data Science) [2]
B.Tech. Computer Science and Engineering (Bioinformatics) [1]
B.Tech. Computer Science and Engineering (Block chain) [3]
B.Tech. Computer Science and Engineering (Cloud Computing & Automation) [4]
B.Tech. Computer Science and Engineering (Cyber Security & Digital Forensics) [4]
B.Tech. Computer Science and Engineering (Cyber Security) [1,2,3,]
B.Tech. Computer Science and Engineering (Cyber Security) (2+2 Dual degree with Deakin University) [2]
B.Tech. Computer Science and Engineering (Data Analytics) [3]
B.Tech. Computer Science and Engineering (Data Science) [1,2,]
B.Tech. Computer Science and Engineering (Education Technology) [4]
B.Tech. Computer Science and Engineering (Gaming Technology) [4]
B.Tech. Computer Science and Engineering (Health Informatics) [4]
B.Tech. Computer Science and Engineering (Quantum Computing) [2]
B.Tech. Computer Science and Engineering (Software Engineering) [3]
B.Tech. Computer Science and Business Systems [3]
B.Tech. Computer Science and Engineering and Business Systems (in collaboration with TCS) [1]
B.Tech. Electrical and Computer Science Engineering [2]
B.Tech. Electrical and Electronics Engineering [1,2,3]
B.Tech. Electronics and Communication Engineering [1,2,3,4]

B.Tech. Electronics and Communication Engineering (Artificial Intelligence & Cybernetics) [4]
B.Tech. Electronics and Communication Engineering (Embedded systems) [3]
B.Tech. Electronics and Communication Engineering (VLSI) [3]
B.Tech. Electronics and Computer Engineering [1,2,3]
B.Tech. Electronics and Instrumentation Engineering [1]
B.Tech. Electronics Engineering (VLSI Design and Technology) [1,2]
B.Tech. Fashion Technology [2]
B.Tech. Health Sciences and Technology [1]
B.Tech. Information Technology [1]
B.Tech. Mechanical Engineering [1,2,3,4]
B.Tech. Mechanical Engineering (Artificial Intelligence & Robotics) [4]
B.Tech. Mechanical Engineering (Automotive Design) [3]
B.Tech. Mechanical Engineering (Electric Vehicles) [2]
B.Tech. Mechanical Engineering (Robotics) [3]
B.Tech. Mechatronics and Automation [2]

Programmes Available at : (1) VIT-Vellore, (2) VIT-Chennai, (3) VIT-AP, (4) VIT-Bhopal

3. Eligibility

a. Nationality

- The applicant for VITEEE-2027 should be a Resident Indian National or Non Resident Indian National (NRI) or OCI Cardholder with a residential address in India .
- NRI applicants can also apply under 'NRI Category' through NRI application form. (https://vit.ac.in/admissions/international/overview)
- Foreign applicants who studied/studying abroad can apply directly through the International application form (https://vit.ac.in/admissions/international/overview)

b. Qualifying Examination

- **Candidates must have passed HSC/Class XII in 2025 or 2026, or be appearing for the HSC/Class XII examination in 2027. Candidates who have passed HSC/Class XII in 2024 or earlier are not eligible to appear for VITEEE-2027 or seek admission.**
- Candidates who have completed their qualifying examination through the Regular, Full-Time and Formal mode of education, with English as a subject, are eligible to apply.
- Candidates must have completed and passed the qualifying examination with all required subjects from one recognized Board of Examination in a single academic year. Candidates who have obtained or completed one or more subjects from different Boards of Examination, whether in the same academic year or in different academic years, by combining the subjects/marks for the purpose of satisfying the eligibility requirements, shall not be considered eligible for admission.
- Candidates who have appeared multiple board examinations in the same / different academic year are not eligible.
- Candidates must refer to the Board Code List provided in the Annexure of the VITEEE-2027 Prospectus and select the correct board code corresponding to the HSC/Class XII examination they have passed or are appearing for. Candidates are advised to ensure that the board code entered in the application is accurate. Mismatch or wrong code may lead to rejection of application without prior notice.
- VITEEE 2027 is mandatory to be eligible for B. Tech. admission in VIT Group of Institutes for Indian National.

School Board:

i The final examination of the 10+2 system, conducted by any recognized Central/ State Board, such as the Central Board of Secondary Education, New Delhi; Council for the Indian School Certificate Examinations or any other board accepted by VIT as equivalent to 10+2 examination.

ii Intermediate or two-year Pre-University Examination conducted by a recognized Board/ University.

iii General Certificate Education (GCE) examination (London/Cambridge/Srilanka) at the Advanced (A) level.

iv High School Certificate Examination of the Cambridge University/Pearson Edexcel regulated by UK.
For PCM: Physics & Mathematics – A Level/ Chemistry – A/AS Level and English – A/AS Level
For PCB: Physics & Biology – A Level/ Chemistry – A/AS Level and English – A/AS Level

v High School Certificate Examination of the International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.
For PCM: Physics & Mathematics – HL, Chemistry – SL/HL
For PCB: Physics & Biology – HL, Chemistry – SL/HL

vi Senior Secondary School Examination conducted by the National Institute of Open Schooling with minimum of 5 subjects as recognized by central board.

vii Applicants who have completed the class XII or equivalent examination outside india should produce an equivalence certificate to the effect that the examination they have passed is equivalent to class XII examination with grade/ CGPA converted to percentage.

Note: The following subject-combination nomenclature shall be based on the subjects mentioned in the candidate's Class XII/HSC mark sheet:

- PCM – Physics, Chemistry and Mathematics
- PCB – Physics, Chemistry and Biology
- PCMB – Physics, Chemistry, Mathematics and Biology

c. Requirement in the Qualifying Examination

- Applicants should be qualified for admission to collegiate education.
- Applicants applying for the Undergraduate Engineering admission in 2027 should have passed with minimum aggregate of 60% of marks in Mathematics, Physics and Chemistry and with not less than 50% in Mathematics (Refer admission eligibility criteria for admission to B.Tech. Programme).
- Applicants applying for the Undergraduate Engineering admission in 2027 should have passed with minimum aggregate of 60% of marks in Biology, Physics and Chemistry and with not less than 50% in Biology (Refer admission eligibility criteria for admission to B.Tech. Programme).
- Applicants applying for the Undergraduate Engineering admission in 2027 should have passed with minimum aggregate of 50% in Physics, Chemistry, and Mathematics/Biology in the qualifying examination (+2/HSC/Intermediate) for the following categories:
  - Applicants belonging to SC/ST
  - Applicants hailing from Jammu and Kashmir/ Ladakh and the Northeastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.

Note:

- Both theory and practical components will be considered while calculating percentage.
- Certificate to prove community / nativity should be produced at the time of counselling, failing which they will not be considered for admission.
- If at any point of time, the candidates do not fulfill the eligibility as per norms, the admission accorded will be void ab initio.

d. Admission Eligibility Criteria:

- PCMB/PCM applicants who have attempted Mathematics, Physics, Chemistry, English and Aptitude (MPCEA) in VITEEE 2027 with 60% aggregate of marks in Mathematics, Physics and Chemistry and with not less than 50% in Mathematics in HSC/Class XII/Intermediate examination are eligible for admission to all B. Tech Programmes.
- PCMB/PCB applicants who have attempted Biology, Physics, Chemistry, English and Aptitude (BPCEA) in VITEEE 2027 with 60% aggregate marks in Biology, Physics and Chemistry and with not less than 50% in Biology in HSC/Class XII/Intermediate examination are eligible for admission to the following programmes only.
  - B.Tech. Biotechnology [VIT-Vellore, VIT-Chennai & VIT-AP]
  - B.Tech. Computer Science and Engineering (Bioinformatics), [VIT - Vellore]
  - B.Tech. Health Sciences and Technology [VIT - Vellore]
  - B.Tech. Bioengineering [VIT - Bhopal]
  - B.Tech. Computer Science & Engineering (Health Informatics) [VIT - Bhopal]
  - B.Tech. Computer Science & Engineering (Education Technology) [VIT-Bhopal]

For candidates appearing for MPCEA in VITEEE-2027, only the aggregate marks obtained in Physics, Chemistry and Mathematics (PCM) in the qualifying examination shall be considered for determining eligibility. For candidates appearing for BPCEA in VITEEE-2027, only the aggregate marks obtained in Physics, Chemistry and Biology (PCB) in the qualifying examination shall be considered for determining eligibility.

If VITEEE-2027 cannot be conducted due to natural calamities or causes beyond the control of the Institute, qualifying criteria may be substituted with higher secondary marks. Applicants shall be informed accordingly.

4. Admission Process

Candidates must appear for VITEEE-2027 and secure a rank to be eligible for B.Tech. admission to the VIT Group of Institutions. Admission will be offered only through VITEEE-2027 rank-based counselling process, subject to the candidate's VITEEE rank, fulfillment of eligibility criteria and availability.



Admission Process

1. Submission of VITEEE Application through Web by applicants https://viteee.vit.ac.in
2. Application Verification & Scrutiny
3. The test city, test centre, and test slot will be allotted by VIT, and the allocation details will be communicated to candidates
4. Candidates may download their admit card from the link provided via e-mail
5. Appear for VITEEE 2027
6. VITEEE 2027 Result Announcement
7. Announcement of Online Counselling based on VITEEE 2027 Rank
8. Programme wishlist by the candidates
9. Provisional Admission Letter to B.Tech Programme based on VITEEE Rank
10. Document Verification

5. Online Application Form

The B. Tech Admission Application Form is available online at https://viteee.vit.ac.in . The cost of the Application Form is INR 1,450/- and for NRI applicants USD 90 in equivalent INR. **Application cost is non-refundable**

- Candidates shall ensure that the information (like his/her name, parent name, gender, date of birth, community, photograph, and signature, etc.) provided by them in their online Application Form is correct.
- Any request for change in the particulars and uploaded documents at any stage will not be considered by VIT under any circumstances.
- Candidates are requested to fill in the Application Form carefully. No corrections in certain fields, as notified, will be permitted once the Application Form is submitted.
- VIT will not entertain the corrections sent by the candidate through Post/ Fax/ WhatsApp/ E-mail/ Online Service request/by hand

Note: Multiple Application Forms submitted by a candidate will be considered as unfair practice and will lead to the cancellation of his/her application/admission at any point of time.

5.1. Guidelines for filling up the application form



Step 1:
Signup

- Valid e-mail address and active mobile number are required. Enter all the relevant details carefully.
- Enter only your own mobile number, not service centre or Internet centre mobile number, as all the communications will be forwarded to that number only.
- An OTP will be sent to the Registered Mobile Number for verification. Once OTP is validated, a password will be sent to the registered email address.
- All the correspondence shall be made to the registered email address and mobile number only.
- For NRI Applicants OTP will be communicated to their registered E-mail ID only.

Step 2:
Login

- The registered e-mail address and mobile number are required for login.
- Read and accept the declaration before filling out the form; discrepancies between the application and supporting documents will result in cancellation of application without fee refund.

Step 3:
Personal Details

- Provide the Community, Economically Weaker Section, Parent/Guardian and address for correspondence details.
- Resident Indians/OCI cardholders should provide only residential address in India to appear for VITEEE.
- NRI applicants should provide only abroad residential address to appear for VITEEE 2027, and allowed to appear in overseas test cities.
- The test city will be allotted based on the correspondence address provided in the application. Therefore, candidates must enter the correct correspondence address and upload a valid proof of the same.

Step 4:
Educational Details

- Provide Mode of Study, Board Details, Medium of study, Year of Passing, School details and Subject preference (MPCEA / BPCEA) for VITEEE-2027.

Important Note: Candidates must select the correct Board Code from the Annexure corresponding to the Board from which they have passed or are appearing for the qualifying examination. The qualifying examination mark sheet/certificate issued by the Board indicated in the application will be verified during the counselling/admission process. Any incorrect, false, misleading, or inconsistent information furnished in this regard may result in rejection/cancellation of the application or cancellation of admission, as applicable, at any stage of the admission process.

Step 5:
Class 10 Information

- Provide Name, Register number / Roll number and Year of Passing of 10th Standard as in Mark Sheet.
- Scan and Upload the original 10th Standard Mark Sheet

Step 6:
Payment

- Application cost of INR.1450/- should be paid through Net Banking / Credit Card/ Debit Card
- For test centers abroad application cost of USD 90 to be paid equivalent in INR.

Note: Application cost is non-refundable.

Step 7:
Applicant Photo capturing and Signature
Live-Photo Capturing & Signature Upload-Instructions

The photograph must be captured in real time using the device camera and should meet the following specifications:

- Sit or stand on a plain white or off-white background. Ensure there are no shadows, patterns, or objects behind you.
- Position your head completely within the green guide box, keeping it centered with both ears visible.
- Use soft, even lighting. Avoid backlighting and harsh shadows.
- Keep your eyes open and maintain a neutral expression.
- Ensure only your face and shoulders are visible.
- Hold the camera steady and verify the preview before capturing the image.
- After capturing, use the crop tool that appears to fine-tune framing, drag, zoom, or rotate as needed, then click "Crop & Save Photo".
- If the live photo capture fails, check camera permissions and internet connectivity, then try again.
- Applicants are advised to use the latest version of Google Chrome or Mozilla Firefox for a smoother experience.
- Only the candiates live photograph must be captured. Uploading photo of any other person will lead application rejection.

Signature Upload:

- Draw a 6 cm × 2 cm rectangle on plain white A4 paper and sign inside it with a black or dark blue pen.
- Scan or photograph it and upload in JPG/JPEG format.
- Crop only the signed area. The cropped image should be 3.5 cm × 1.5 cm (7:3 ratio) and the signature should fill most of the image.
- The file size must be between 20 KB and 300 KB.
- The signature must be signed by the applicant only. It should be handwritten, not typed.
- If your signature does not match the one you make at the time of the examination, you may be disqualified.
- Only the candidates signature must be uploaded. Uploading signature of any other person will lead application rejection.

Step 8:
Document Upload
(i) Indian National

Candidates shall submit any one valid document as proof of their current residential address, bearing the candidate's name and complete address. The document must be valid and/or issued within the prescribed period, wherever applicable. VIT reserves the right to verify the authenticity and validity of the document submitted. Any discrepancy or fraudulent information will lead to suitable legal action and cancellation of application / admission.

Candidates must upload any one of the following valid documents showing their name and current residential address:

1. Aadhaar Card of the candidate.
2. Passport of the candidate.
3. Voter ID Card (EPIC) of the candidate
4. Driving Licence / LLR of the candidate
5. Ration Card / Family Card highlighting candidate name and address
6. School ID Card with Photo and correspondence address of the candidate
7. Address/Domicile/Residence Certificate along with candidate name issued by the competent State/UT Government authority
8. Bank Passbook or Bank Statement issued by a scheduled bank, showing the candidate's correspondence address
9. Post Office Passbook or Statement showing the candidate's correspondence address

Any one of the above mentioned documents issued by a competent authority/institution shall be accepted.

(ii) OCI Candidates:

OCI candidates are required to upload a valid and legible copy of their OCI Card along with correspondence address listed above. The OCI Card must be valid and clearly display the candidate's details.

Important Instruction: Any discrepancy, misrepresentation, concealment, or submission of false or fraudulent information/documents may result in cancellation of the application/admission and may attract appropriate legal action as per the applicable rules and regulations.

(iii) NRI Candidates:

NRI Candidates are required to upload correspondence address proof and Class XI mark sheet issued by school.

NRI applicants should provide only abroad residential address to appear for VITEEE 2027, and allowed to appear in overseas test cities.

Important Note:

- The document must be valid on the date of submission and must clearly display the candidate's name and complete current address.
- Where the address proof is not in English, an official English translation must be submitted along with the original document.
- Documents that are expired, illegible, incomplete, altered or do not clearly establish the candidate's current address will not be accepted and lead to application disqualification. Temporary accommodation documents, hotel bills, courier receipts and self-declarations shall not be accepted as address proof.
- The Institute reserves the right to request additional documentation for verification wherever required.
- The Institute reserves the right to verify the authenticity and validity of the document submitted.

Step9:

Download filled-in application form

- Download and save the filled-in application for your reference and further correspondence.
- Applicants **NEED NOT SEND** hard copy of the filled-in application form to VIT.

6. Queries and SMS/email Tracking

6.1 Queries

Candidates can utilize the "Need Help menu" in the application portal for any queries relating to application form filling or call helpline number 044 - 46277555.

6.2 SMS/WhatsApp/ E-mail Tracking

- Application number will be generated immediately after providing the primary details.
- SMS/ WhatsApp Messages/ e-Mail will be sent to all applicants found incomplete till payment stage.
- Once the application is completed as per the requirement, a message will be triggered to the student registered E-Mail that the application is successful.
- Candidates are advised to check registered E-mail for regular updates from VIT.

7. About VITEEE

Vellore Institute of Technology Engineering Entrance Examination (VITEEE) is conducted for admission to undergraduate engineering programmes in VIT group of Institutions. VITEEE will be conducted between 27th April -02nd May, 2027 (Tentatively) at designated centres across India and abroad (No. of days will vary for test cities). The duration of the examination will be 2 hours. Candidates can appear only once for VITEEE and any violation will lead to cancellation of application and admission.

The fee towards application and subsequent counselling is non-refundable.

7.1 VITEEE

a. Mode of Examination:

VITEEE 2027 is being conducted in Computer Based Test (CBT) Mode at designated centers across India and Overseas locations.

b. Exam Pattern:

- All Questions will be of Objective type - Multiple Choice Question (MCQs) with the following sections.

For MPCEA Candidates		
Mathematics	-	40 Questions
Physics	-	25 Questions
Chemistry	-	25 Questions
English	-	5 Questions
Aptitude	-	5 Questions

For BPCEA Candidates		
Biology	-	40 Questions
Physics	-	25 Questions
Chemistry	-	25 Questions
English	-	5 Questions
Aptitude	-	5 Questions

- Each question is followed by 4 choices. The candidate should choose only one choice and submit the same.
- The Question paper will be in English Language only.
- Duration of exam is 2 hours without break. No bio break during exam.
- The detailed syllabus for VITEEE 2027 is available on the website: vit.ac.in and also available in Annexure. Candidates may refer to NCERT text books for the contents.

c. Section-wise Time Allocation:

- A fixed time limit is allotted for each section of the examination:

Subject	Minutes
Mathematics / Biology	50 minutes
Physics	30 minutes
Chemistry	30 minutes
English and Aptitude	10 minutes

d. Marking Scheme:

To answer a question, the candidates need to choose one option corresponding to the correct answer, and the marking is as follows:

1. For each Correct answer: Four marks (+4)
2. For each Wrong answer minus One mark (-1)
3. Unanswered/Marked for Review will be given Zero mark (0)

Although sufficient care is taken for the correctness of questions, in the event that a question(s) needs to be dropped, full marks for that question(s) will be awarded to ALL candidates.

Note: Mock/Demo Test: A mock test will be available to the candidates on the website www.vit.ac.in. tentatively in March 2027. This is mainly designed to provide the candidates awareness of the procedure and to familiarize them to the various components of the exam. The mock test will give the candidate an idea of all the features of the entrance test.

8. VITEEE Conduct of Exam

8.1 Test City:

- The tentative list of test cities where VITEEE 2027 will be conducted are given in Annexure.
- **Test city, test centre, test date and time will be allotted by VIT. The test centre will be allotted based on your correspondence address. If you do not upload a valid correspondence address proof, your application will be cancelled and attracts no refund.**
- In the event that a test city or test centre is unavailable in the region corresponding to the candidate's correspondence address, VIT reserves the right to allot an alternative test city and test centre, including the nearest available test city, as deemed appropriate by the Institute. The allotment of the test city, test centre, test date and time shall be at the sole discretion of VIT, and candidates shall not be entitled to claim any particular test city, test centre, test date and time.

8.2 Admit Card

- Candidates will be notified via e-mail, SMS and WhatsApp on the Admit Card prior to the exam schedule.
- The Admit card with address of the test venue will be available for the download in the portal between 25th April to 30th April 2027 (Tentatively).
- The copy of the Admit card can be downloaded from the portal and will also be emailed to the candidate.
- The Admit card will not be despatched to candidates via post to their address. Candidates are advised to check registered E-mail for detailed guidelines on admit card and VITEEE 2027.



- Candidates should take a printout of the Admit card using the print option on A4 size paper only. Please ensure that all information on the Admit card including photograph is clearly visible on the printout with watermark proof in pdf format and not the screenshot downloaded from the mobile.
- Candidates will not be permitted to appear for the test without valid Admit card.
- Candidates should not mutilate the Admit card or change any entry made therein after it has been authenticated and received by them. Impersonation is a legally punishable offence.
- The Admit card is an important document and it must be preserved and produced at the time of examination / counselling / admission.
- Candidates are not permitted to appear more than once either in the same subject or another subject by duplicate application. Any attempt more than once will result in the disqualification of candidacy and admission.
- Candidate will be tested on the subject chosen in the application form and mentioned in this Admit card. No changes in the subject chosen during application filling will be entertained.
- The candidates are advised to read the instructions on the Admit Card carefully and strictly follow them during the examination.

8.3. At the Exam Centre

- Candidates will not be allowed to attend the test, without the following documents. Candidate should report to the test centre with the physical copy:
  i. Print out of Admit card
  ii. Any one of the authorized photo IDs (must be original, valid, and non-expired) - School Identity Card/ PAN card/ Driving License/ Voter ID/ Passport/ Aadhaar Card / Class XII Board Admit Card with photograph.
- Candidates are NOT allowed to carry Instruments, Geometry or Pencil box, Handbag, Purse, any kind of Paper/ Stationery/ Textual material (printed or written material), Eatables and Water (loose or packed), Mobile Phone/ Earphone/ Microphone/ Pager, Calculator, DocuPen, Slide Rules, Log Tables, Camera, Tape Recorder, Electronic Watches with facilities of calculator, any metallic item or electronic gadgets/ devices in the Examination Hall/Room.
- Biometric registration is a part of attendance and hall ticket verification process and VIT reserves the right to carry out the same either before or during the examination or both.
- Candidates who do not co-operate during the bio - metric registration process will not be allowed to take the examination and VIT reserves the right to disqualify such candidates.
- Biometric authentication will be carried out again for the shortlisted candidates during the admission.
- Candidates will be monitored through CCTV camera individually.
- Candidates are not allowed to carry any items other than the documents mentioned above to the examination hall. VIT will not be responsible for any loss of valuables.
- No candidate will be allowed to appear at the examination centre, on the date and shift/time other than that allotted to him/ her in his/ her Admit Card.
- Candidates should not be idle for more than 20 minutes and the candidate will be inquired by VIT Observer and may lead to expulsion.
- All calculations/writing work is to be done only in the Rough Booklet provided at the Test Centre in the Examination Hall and on completion of the test, candidates must hand over the Rough Booklet to the Invigilator on duty in the Hall. Only one rough booklet will be issued and no additional booklets will be provided during examination.

- Compensatory time for Persons with Disability/ Persons with Benchmark Disability (PwD/PwBD) candidates of 30 minutes for the examination will be given to those who are eligible, subject to PwD/PwBD certificate issued by an authorized medical officer. Such candidates are advised to inform UG Admissions office prior to VITEEE exam via e-mail (ugadmission@vit.ac.in).

8.4. Features of Computer Based Test

- Questions will be in English and will appear one by one randomly.
- All questions are multiple choice questions (MCQ). Each question has a body and four responses labelled A, B, C and D. Only one of the four responses is correct. Candidate should select only one among four choices.
- VIT reserves the right to reschedule the examination for a candidate. The candidate will not be charged any additional entrance exam fee if the re-schedule is initiated by VIT. However, the candidate should make his / her own arrangements at his / her cost similar to the original schedule to take the test on the revised date.

8.5. Code of Conduct

Malpractice is an activity that allows a candidate to gain an unfair advantage over other candidates. It includes, but is not limited to:

- Being in possession of any item or article which has been prohibited or can be used for unfair practices including any stationery item, electronic gadgets, food or any other material or information relevant or not relevant to the examination.
- Using someone to write examination (impersonation) or preparing material for copying.
- Assisting other candidate to engage in malpractices, giving or receiving assistance directly or indirectly of any kind or attempting to do so.
- Writing questions or answers on the rough booklet / hall ticket is prohibited. Rough booklet is only for the rough work and should be handed over to the invigilators after the examination.
- Contacting or communicating or trying to do so with any person, other than the invigilator/ VIT observer during the examination time in the Examination Centre.
- Exchange of any physical materials with other candidates.
- Approaching Invigilator /Test centre people proposing unfair means.
- Threatening /Arguing with any of the officials connected with the conduct of the examination or threatening any of the candidates.
- Using or attempting to use any other method or means to get unfair advantage.
- Forceful entry in /exit from Examination Centre/Hall
- Affixing/uploading of wrong/morphed photographs/signatures on the Application Form/Admit Card etc.,
- Tamper with, damage, disconnect, or otherwise interfere with the computer system, either before or during the examination.
- Breach of examination rules or any direction issued by VIT in connection with VITEEE 2027 examination from time to time.

Punishment for Malpractices:

- Cancellation of Result during, before or after the examination, if a candidate indulges in any of the above or similar practices, he/she shall be deemed to have used unfair practices and booked under Malpractice case.
- The candidate would be permanently disqualified from VITEEE- 2027 and shall also be liable for criminal action / any other action as deemed fit.

8.6. Important Guidelines for the Candidates

1. Candidates are advised to report at the Examination Centre well on time atleast 2 hours before the commencement of the examination.
2. Candidates will not be allowed to enter the examination centre beyond the entry time mentioned in Admit card.
3. Candidates should take their seats immediately after entering the Examination Hall. If the candidates do not report on time due to any reason i.e. traffic jam, train/bus delay etc., they are likely to miss some of the important instructions to be announced in the Examination Hall. VIT shall not be responsible for any delay of the candidate to reach the examination centre.
4. The candidate must show, on-demand, the Admit Card downloaded and printed from the portal for admission in the examination hall. VIT Observer / Staff on duty is authorized to verify the identity of candidates and may take steps to verify and confirm the identity credentials. Candidates are requested to extend their full co-operation.
5. Candidates who do not possess valid Admit Card and authorized Photo ID shall not be permitted to take the examination under any circumstances.
6. The candidates may approach the VIT Observer / Invigilator in the room for any technical assistance, first aid emergency, or any other information during the course of the examination.
7. For those who are unable to appear on the scheduled date of the test for any reason, a re-test shall not be held by VIT under any circumstances.
8. In case a candidate, by furnishing false information, appears in more than one slot /date, his / her candidature will be cancelled and his / her result will not be declared.
9. For any queries or issues regarding the Computer Based Test, the candidates may contact on Helpline Number: 044-46277555

9. Result

- A rank list will be prepared based on the percentile secured in VITEEE-2027.
- Since the final ranks are determined with extreme care, there is no provision for re-ranking and re-totaling. Neither the raw score of the candidate nor the photocopies of the answer sheets will be provided. Correspondence in this regard will not be entertained.
- VIT has the right to hold the rank and cancel the candidacy of the candidates appearing more than once, any discrepancies found in application or indulge any malpractice before or after at the time of giving the exam.

9.1. Score Calculation

VITEEE is conducted over multiple days, typically with three sessions each day. Each session features a different set of questions, and despite all efforts to maintain uniformity, there may be slight variations in the difficulty levels of these papers. As a result, some candidates might face a tougher paper compared to others, which could affect their raw scores. To ensure fairness and

eliminate any advantage or disadvantage arising from such differences, a "Normalization Procedure based on Percentile Scores" is applied. This process ensures that every candidate's performance is evaluated on an equal footing, accurately reflecting their true merit, regardless of the specific session they attempted.

The process of Normalization is an established practice for comparing candidate scores across multi-session papers and is similar to those being adopted in other large educational selection tests conducted in India.

10. Counselling Procedure

- A non-refundable counselling fee of INR. 5,900/- is required to participate in the counselling process which shall be remitted on declaration of VITEEE results.
- Selection is based on the rank secured through Computer Based Test (CBT) VITEEE 2027.
- Selected candidates can participate in online counselling based on their ranking. They can give options for specific campus, programme and category of fees. Allotment will be based on the rank obtained, preference given and availability of seats during online counselling.
- Candidates are required to upload the higher secondary examination hall ticket to download the provisional admission letter after remittance of tuition fee.
- The fact that a candidate has been qualified and called for the counselling does not guarantee admission to him/ her. This depends upon the candidates rank and the availability of seats.
- VIT will verify the eligibility of candidates after completing the tuition fee payment. Candidates are required to produce documents on the day of reporting to the campus or as and when asked for, by the Office of Admissions. Provisional Admission offered during counselling will be valid ONLY if the eligibility is fulfilled.
- The counselling process is common for VIT group of Institutions. The online counselling will be held in five phases. The rank, schedule, choice entry will be available in the counselling portal. The applicants who fail to appear in their phase of counselling are eligible to appear in next phase based on rank, but limited to available choices in that phase.
- Applicants may select campus/programme / fee category during counselling. The allotment will be based on VITEEE Rank. Once the required fee is paid through online portal after confirmation of allotment, provisional admission letter will be available in portal.
- Once allotted campus/programme/fee category cannot be changed.

11. Document submission for verification on Admission

Original Documents:

- Copy of Provisional Admission Letter
- XII Mark statements of all attempts of qualifying examination
- Transfer Certificate / School leaving Certificate
- Migration Certificate (if issued by the board)
- Student Profile – (Signed by Student & Parent)
- Affidavit by the Student, Parent and Hostel Affidavit on Rs. 200/- stamp paper – (Signed & Notarized)
- Physical Fitness (Certified by authorized Physician)
- Undertaking form (Signed by Student & Parent)
- Data Consent form

- Age proof certificate (Passport/ Birth certificate)
- Community Certificate (For SC/ST only)
- Nativity Certificate (For candidates hailing from Jammu and Kashmir, Ladakh and the North Eastern states)
- Passport Copy [Student & Parent] (For NRI candidates)
- Employer Certificate (For NRI candidates)
- Sponsorship letter (For NRI candidates)
- VISA (For NRI candidates)

Note:

- All photocopies of documents will be archived and will not be returned for any reason.
- The candidate should submit the qualifying mark statement from the board studied as mentioned on the VITEEE application form for verification of genuineness at the time of admission. In case of submission of any fraudulent, incompetent certificate by the applicant will lead to legal action and the admission accorded will be duly cancelled and no refund will be initiated.
- The qualifying examination mark statement submitted by the candidate will be verified from the respective board.

12. Withdraw Procedure

- Candidate should give request for withdrawal only through online using Fresher's portal (details will be shared at the time of counselling)
- Date of Application for withdrawal is the date of submitting clearance form (NO DUES FORM) through online.
- Exit formalities to be completed by the candidates if reported to campus.

13. Refund Policy

The refund policy applicable to the admission process will be communicated to candidates at the time of counselling, in accordance with the applicable UGC guidelines.

14. Campus Life

Every attempt has been done by the management and other administrative boards to assure that every student finds VIT a very lively, fun and resourceful community to employ their erudite years. Conscious of the influence these active years can have on the minds of the expectation of our nation and the globe, VIT endeavors to promote, introduce and expand any and all ventures to shape their minds. By bringing clubs, chapters and college festivals, students are not simply revealed to a competitive environment inside the university but also with reputed universities and colleges in and around the country.











15. Hostels

A home away from home, the hostels at VIT is more than four walls and a roof. They have been designed to provide a comfortable, safe, inclusive and secure living even as they provide opportunities to form lasting friendships and ease the transition from home to college. Residential staff is always available to support the students from different backgrounds to promote community. Hostel is mandatory for all first year candidates with radius above 65 Km. Living on campus provides students with opportunities to:

- Connect with a diverse population of people
- Develop stronger interpersonal and communication skills
- Engage in campus leadership, organizations and activities
- Establish relationships with faculty and staff members

For more details – https://vit.ac.in/campus life/hostels

16. Anti-ragging Committee

VIT gives immense emphasis on maintaining a ragging-free campus. Anti-Ragging Committee is constituted with Director, Students' Welfare as Chairperson, Assistant Directors, Students' Welfare as Members and nominated Faculty members from each school as Coordinators. Along with the Coordinators from each school, there is a team of squad members that comprises of faculty as well as staff members.

- If any student has any grievance in the nature of ragging, including any kind of harassment, the same can be brought to the notice of the Chairperson or any of the Committee Members from various schools, for necessary action and redressal.
  https://vit.ac.in/anti-ragging-committee

17. Important Dates

Particulars	Date
Last date for submission of online form	31st March, 2027
Admit Card Download (Tentatively)	25th April to 30th April 2027
VITEEE-2027 (Tentatively) (Number of days will vary for test cities)	27th April to 02nd May 2027
Result Declaration (Tentatively)	2nd week of May, 2027
Online Counselling (Tentatively)	2nd week of May, 2027



18. Annexures

18.1 List of Test Cities

Andaman and Nicobar Islands	Sri Vijaya Puram (Port Blair)
Andhra Pradesh	Amaravati(AP)
Andhra Pradesh	Anantapur
Andhra Pradesh	Chirala
Andhra Pradesh	Eluru
Andhra Pradesh	Kakinada
Andhra Pradesh	Kurnool
Andhra Pradesh	Nellore
Andhra Pradesh	Ongole
Andhra Pradesh	Rajamahendravaram
Andhra Pradesh	Srikakulam
Andhra Pradesh	Tirupati
Andhra Pradesh	Vijayawada
Andhra Pradesh	Visakhapatnam
Arunachal Pradesh	Naharlagun
Assam	Dibrugarh
Assam	Guwahati
Assam	Silchar
Bihar	Bhagalpur
Bihar	Gaya
Bihar	Muzaffarpur
Bihar	Patna
Chhattisgarh	Bhilai
Chhattisgarh	Bilaspur
Chhattisgarh	Raipur
Delhi	New Delhi
Goa	Mapusa
Gujarat	Ahmedabad
Gujarat	Jamnagar
Gujarat	Rajkot
Gujarat	Surat
Gujarat	Vadodara
Haryana	Faridabad
Haryana	Gurugram
Himachal Pradesh	Bilaspur (HP)
Jammu and Kashmir	Jammu
Jammu and Kashmir	Srinagar
Jharkhand	Bokaro
Jharkhand	Dhanbad
Jharkhand	Jamshedpur
Jharkhand	Ranchi
Karnataka	Bengaluru
Karnataka	Hubbali
Karnataka	Mangaluru
Karnataka	Mysuru
Kerala	Ernakulam
Kerala	Kannur
Kerala	Kollam
Kerala	Kozhikode
Kerala	Malappuram
Kerala	Thiruvananthapuram
Kerala	Thrissur
Kerala	Wayanad
Madhya Pradesh	Bhopal
Madhya Pradesh	Gwalior
Madhya Pradesh	Indore
Madhya Pradesh	Jabalpur
Maharashtra	Amravati
Maharashtra	Chhatrapati Sambhaji nagar(Aurangabad)
Maharashtra	Latur
Maharashtra	Mumbai
Maharashtra	Nagpur
Maharashtra	Nashik
Maharashtra	Navi Mumbai

Maharashtra	Pune
Maharashtra	Solapur
Manipur	Imphal
Meghalaya	Shillong
Mizoram	Aizawl
Nagaland	Kohima
Odisha	Bhubaneswar
Odisha	Brahmapur
Odisha	Cuttack
Odisha	Rourkela
Puducherry	Puducherry
Punjab	Amritsar
Punjab	Bathinda
Punjab	Ludhiana
Punjab	Pathankot
Punjab	Sahibzada Ajit Singh Nagar (Mohali)
Rajasthan	Ajmer
Rajasthan	Bikaner
Rajasthan	Jaipur
Rajasthan	Jodhpur
Rajasthan	Kota
Rajasthan	Udaipur
Sikkim	Gangtok
Tamil Nadu	Chennai
Tamil Nadu	Coimbatore
Tamil Nadu	Cuddalore
Tamil Nadu	Erode
Tamil Nadu	Kancheepuram
Tamil Nadu	Kanyakumari
Tamil Nadu	Karur
Tamil Nadu	Madurai
Tamil Nadu	Nagercoil

Tamil Nadu	Namakkal
Tamil Nadu	Salem
Tamil Nadu	Thanjavur
Tamil Nadu	Tiruchirappalli
Tamil Nadu	Tirunelveli
Tamil Nadu	Tiruppur
Tamil Nadu	Vellore
Tamil Nadu	Viluppuram
Telangana	Hyderabad
Telangana	Karimnagar
Telangana	Khammam
Telangana	Mahbubnagar
Telangana	Nalgonda
Telangana	Warangal
Tripura	Agartala
Uttar Pradesh	Agra
Uttar Pradesh	Bareilly
Uttar Pradesh	Ghaziabad
Uttar Pradesh	Gorakhpur
Uttar Pradesh	Jhansi
Uttar Pradesh	Kanpur
Uttar Pradesh	Lucknow
Uttar Pradesh	Mathura
Uttar Pradesh	Moradabad
Uttar Pradesh	Noida
Uttar Pradesh	Prayagraj
Uttar Pradesh	Varanasi
Uttarakhand	Dehradun
Uttarakhand	Haldwani
West Bengal	Durgapur
West Bengal	Kolkata
West Bengal	Siliguri

Abroad Test cities

United Arab Emirates	Dubai
United Arab Emirates	Abu Dhabi
United Arab Emirates	Sharjah
Kuwait	Kuwait
Oman	Muscat

Qatar	Qatar
Malaysia	Kuala Lumpur
Singapore	Singapore
Bahrain	Manama

18.2 List of Boards with Codes

Board Name	Code
Regular	
ALIGARH MUSLIM UNIVERSITY	ALMUN
ASSAM HIGHER SECONDARY EDUCATION COUNCIL	AHSEC
BANASTHALI VIDYAPITH	BANVI
BIHAR SCHOOL EXAMINATION BOARD	BHSEB
BOARD OF INTERMEDIATE EDUCATION (ANDHRA PRADESH)	BIEAP
BOARD OF SCHOOL EDUCATION HARYANA	BSEHR
BOARD OF SCHOOL EDUCATION UTTARAKHAND	BSEUK
BOARD OF SECONDARY EDUCATION RAJASTHAN	BSERJ
BOARD OF SECONDARY EDUCATION, MADHYA PRADESH	BSEMP
CAMBRIDGE INTERNATIONAL GENERAL CERTIFICATE OF EDUCATION - ADVANCED LEVEL	CAMIE
CENTRAL BOARD OF SECONDARY EDUCATION	CNBSE
CHHATISGARH BOARD OF SECONDARY EDUCATION	CHBSE
COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS	CISCE
COUNCIL OF HIGHER SECONDARY EDUCATION, MANIPUR	CHSEM
COUNCIL OF HIGHER SECONDARY EDUCATION, ODISHA	CHSEO
DELHI BOARD OF SENIOR SECONDARY EDUCATION	DLBSE
EDEXCEL	EDEXL
GOA BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION	GBSHE
GOVERNMENT OF TAMIL NADU, DIRECTORATE OF GOVERNMENT EXAMINATIONS	GTDGE
GOVT. OF KARNATAKA DEPT. OF PRE-UNIVERSITY EDUCATION	GKDPE
GUJARAT SECONDARY AND HIGHER SECONDARY EDUCATION BOARD	GSHEB
GENERAL CERTIFICATE OF EDUCATION ADVANCED LEVEL	GCEAL
HIGH SCHOOL DIPLOMA CERTIFICATE (USA, CANADA)	HSDPC
H.P. BOARD OF SCHOOL EDUCATION	HPBSE
INTERNATIONAL BACCALAUREATE	INBAE
JAMIA MILLIA ISLAMIA	JAMIA
JHARKHAND ACADEMIC COUNCIL	JHDAC
KERALA BOARD OF HIGHER SECONDARY EDUCATION	KBHSE
MAHARASHTRA STATE BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION	MBSHS
MEGHALAYA BOARD OF SCHOOL EDUCATION	MGBSE

Board Name	Code
MIZORAM BOARD OF SCHOOL EDUCATION	MZBSE
NAGALAND BOARD OF SCHOOL EDUCATION	NLBSE
PUNJAB SCHOOL EDUCATION BOARD	PNSEB
RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES	RGUTA
TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION	TSBIE
THE J & K STATE BOARD OF SCHOOL EDUCATION	JKBSE
TRIPURA BOARD OF SECONDARY EDUCATION	TRBSE
U.P. BOARD OF HIGH SCHOOL & INTERMEDIATE EDUCATION	UPBHS
WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION	WBCHS
Open School	
NATIONAL INSTITUTE OF OPEN SCHOOLING	NIOPS
Others (Applicable Only for NRI Candidates)	
OTHERS	OTHER



18.3 VITEEE Syllabus

PHYSICS

1. Units and Measurements

SI units; dimensions and dimensional analysis; significant figures; least count and zero error; systematic and random errors; absolute, relative and percentage uncertainty; simple uncertainty calculation. Graphical interpretation.

2. Kinematics and Newtonian Dynamics

Motion in one and two dimensions; displacement, velocity and acceleration; motion graphs; relative motion; projectile and circular motion. Newton's laws; free-body diagrams; equilibrium; friction; inclined planes; connected bodies and ideal pulleys. Inertial and uniformly accelerating frames.

3. Work, Energy, and Momentum

Work by constant and simple variable forces; kinetic and potential energy; power; conservative and dissipative forces; energy conservation. Impulse; momentum conservation; centre of mass; elastic and inelastic collisions in one and two dimensions; coefficient of restitution; simple potential-energy diagrams.

4. Rotational Dynamics and Gravitation

Angular motion; torque; angular momentum; rotational energy; moments of inertia of standard uniform bodies; parallel-axis and perpendicular-axis theorems. Static equilibrium, fixed-axis rotation and rolling without slipping. Gravitation; field and potential; variation of gravitational acceleration with altitude; Kepler's laws; circular satellite orbits, orbital energy, geostationary satellites and escape velocity.

5. Mechanical Properties of Matter

Stress and strain; Hooke's law; elastic moduli and elastic energy. Fluid pressure; Pascal's principle; buoyancy and flotation. Continuity and Bernoulli relations; viscosity; Stokes drag and terminal speed; qualitative laminar and turbulent flow. Surface tension, surface energy, and capillary effects.

6. Oscillations and Mechanical Waves

Simple harmonic motion: phase, displacement, velocity, acceleration and energy. Spring–mass systems, spring combinations and the simple pendulum (small angle approximation). Qualitative damping, forced oscillations and resonance. Travelling waves; superposition; reflection; standing waves in strings and air columns; harmonics; beats; speed of sound; elementary Doppler effect in sound.

7. Thermal Physics

Temperature, equilibrium and expansion; calorimetry, heat capacities, latent heat and phase changes. Conduction, qualitative convection, thermal radiation, Stefan–Boltzmann and Wien relations and Newtonian cooling. Ideal gases; kinetic theory; RMS speed; equipartition and

heat capacities. First law; standard thermodynamic processes; pressure–volume diagrams; second law; reversibility; heat engines, refrigerators and Carnot limits. Entropy.

8. Electrostatics

Charge; Coulomb interaction; superposition; electric field, potential and energy; dipoles. Simple uniform charge distributions; electric flux; Gauss's law in symmetric cases. Conductors in electrostatic equilibrium and shielding. Parallel-plate capacitance; dielectrics; capacitor combinations; stored energy; fixed-charge and fixed-voltage situations.

9. Current Electricity

Current and drift speed; resistance, resistivity and temperature dependence; Ohmic and non-Ohmic behaviour. Electrical energy and power; emf and internal resistance; resistor and cell combinations. Kirchhoff's laws; simple networks; Wheatstone bridge, metre bridge and potentiometer; Galvanometer and its conversion to ammeter and voltmeter.

10. Magnetism

Magnetic forces on charges and currents; circular and helical charged-particle motion; simple crossed-field applications. Fields of straight wires, circular loops and long solenoids; elementary Biot–Savart and Ampere applications. Forces between currents; magnetic dipoles; torque and energy. Qualitative properties of dia-, para-, and ferro - magnetic materials.

11. Electromagnetic Induction and Electromagnetic Waves

Magnetic flux; Faraday's and Lenz's laws; motional induction; eddy currents; inductance and magnetic energy. Elementary RC charging and discharging. Sinusoidal AC; peak and rms values; reactance, impedance, phase, series RLC resonance and average power. Ideal generators and transformers. Electromagnetic-wave characteristics, spectrum and applications.

12. Optics

Reflection and refraction at plane and spherical surfaces; mirrors; thin lenses; lens-maker formula; magnification; lens combinations. Total internal reflection; prisms and dispersion; elementary microscopes and telescopes. Wavefronts and Huygens principle; coherence; Young's double-slit interference; single-slit diffraction; linear polarization; Malus's and Brewster's laws.

13. Modern Physics

Dual nature of radiation and matter; photoelectric effect; Matter waves; de Broglie relation. Rutherford scattering; Bohr's model, hydrogen-like atom; energy levels and spectra. Nuclear composition; isotopes; mass defect; binding energy; mass–energy equivalence; radioactive decay, half-life, mean life and activity; fission, fusion and reaction energy.

14. Electronics

Energy bands in solids; conductors, insulators and semiconductors; semiconductor diode and its I-V characteristics; Diode as a rectifier; I-V characteristics of LED, photodiode, solar cell and Zener diode; elementary logic gates (NOT, AND, OR, NAND, XOR, NOR, and XNOR).

CHEMISTRY

1. Physical Chemistry

Atomic Structure - Bohr's atomic model-Sommerfeld's extension of atomic structure; Electronic configuration and Quantum numbers; Shapes of s, p, d, f orbitals - Pauli's exclusion principle - Hund's rule of maximum multiplicity - Aufbau principle. Emission and absorption spectra, line and band spectra; Hydrogen spectrum – Lyman, Balmer, Paschen, Brackett and Pfund series; de Broglie's theory; Heisenberg's uncertainty principle – wave nature of electron – Schrödinger wave equation (No derivation). Eigenvalues and eigenfunctions. Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative level). Hydrogen bond.

Thermodynamics - Zeroth law of thermodynamics – I and II Laws of thermodynamics – internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH, Hess's law of constant heat summation, enthalpy of: bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Introduction of entropy as a state function, Second law of thermodynamics, Gibbs energy change for spontaneous and non-spontaneous process, criteria for equilibrium. Third law of thermodynamics (brief introduction).

Chemical Kinetics - Rate of a chemical reaction, factors affecting rates of reaction: concentration, temperature, pressure and catalyst; Law of mass action – Rate expression, order, and molecularity of reactions, zero order, first order and pseudo first order reaction – half-life period. Determination of rate constant and order of reaction. Temperature dependence of rate constant – Arrhenius equation, activation energy and its calculation; elementary concept of collision theory of bimolecular gaseous reactions.

2. Analytical Chemistry

Electrochemistry - Redox reactions; Theory of electrical conductance; metallic and electrolytic conductance. Faraday's laws – theory of strong electrolytes – Specific resistance, specific conductance, equivalent and molar conductance – Variation of conductance with dilution – Kohlrausch's Law – Ionic product of water, pH, and pH – buffer solutions – use of pH values. Cells – Electrodes and electrode potentials – construction of cell, EMF values and standard electrode potentials, Nernst equation

and its application to chemical cells. Relation between Gibbs energy change and EMF of a cell, dry cell, electrolytic cells and Galvanic cells; lead accumulator; Fuel cells, Corrosion, and its prevention.

Chemical Equilibrium - Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium – Le Chatelier's principle; ionic equilibrium – ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH, Hydrolysis of salts (elementary idea), buffer solutions, Henderson equation, solubility product, common ion effect (with illustrative examples).

Solutions - Colligative properties of dilute solutions; Different methods for expressing the concentration of solution - molality, molarity, mole fraction, percentage, the vapour pressure of solutions and Raoult's Law - Ideal and non-ideal solutions, vapour pressure - composition, plots for ideal and non-ideal solutions.

Environmental Chemistry - Environmental pollution - Atmospheric, water and soil.

3. Inorganic Chemistry

Modern periodic law and present form of the periodic table, *s*, *p*, *d* and *f* block elements, periodic trends in properties of elements atomic and ionic radii, ionization enthalpy, electron gain enthalpy, valence, oxidation states and chemical reactivity.

The s-block elements – properties and chemical reactivity of alkali and alkaline earth metals.

The p-block elements – Group 13 to Group 18 elements – General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups, unique behaviour of the first element in each group.

Boron physical and chemical properties, some important compounds: borax, boric acids, boron hydrides. Aluminium: uses, reactions with acids and alkalies. Carbon - catenation, allotropic forms, physical and chemical properties; Important compounds of silicon and a few uses: silicon tetrachloride, silicones, silicates and zeolites, their uses. Compounds of nitrogen: preparation and properties of ammonia and nitric acid, oxides of nitrogen (structure only); Phosphorous- allotropic forms; compounds of phosphorous: preparation and properties of phosphine, halides (PCl_3, PCl_5) and oxoacids (elementary idea only). Dioxygen: preparation, properties and uses; classification of oxides; ozone. Sulphur – allotropic forms; compounds of sulphur: preparation, properties and uses of sulphur dioxide; sulphuric acid: industrial process of manufacture, properties and uses, oxoacids of Sulphur (structures only).

Compounds of halogens: preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens (structures only).

General characteristics of d–block elements, Lanthanides & Actinides
The d–block elements - Electronic Configuration – Oxidation states of first row transition elements and their colours. Occurrence and principles of extraction: Copper, Silver, Gold and Zinc. Preparation and properties of $CuSO_4$, $AgNO_3$ and $K_2Cr_2O_7$.
Lanthanides – Introduction, electronic configuration, general characteristics, oxidation state – lanthanide contraction, uses, brief comparison of Lanthanides and Actinides.

4. Coordination and Material Chemistry

Coordination Compounds - IUPAC nomenclature of mononuclear coordination compounds; Isomerism, Geometrical isomerism in 4-coordinate, 6-coordinate complexes. Theories on coordination compounds – Werner's theory (brief), Valence Bond theory & CFT (basic ideas of Crystal field theory, colour and magnetic properties), importance of coordination compounds. Uses of coordination compounds. Bioinorganic compounds (Haemoglobin and chlorophyll).

Solid-State Chemistry and Surface Chemistry – Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties, Band theory of metals, conductors, semiconductors and insulators and n- and p-type semiconductors.
Adsorption- physisorption and chemisorption; Catalysis – homogeneous and heterogeneous catalysis. Colloidal state: distinction between true solutions, colloids and suspensions; lyophilic, lyophobic multimolecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsions – types of emulsions.

5. Basic principles of organic chemistry and Functionalized organic compounds

Carbon – tetravalency, hybridization; Classification of organic compounds – functional groups; Homologous series; Nomenclature (IUPAC); Homolytic and heterolytic bond cleavage; carbocations, carbanions and free radicals; electrophiles and nucleophiles; Inductive effect, electromeric effect, resonance and hyperconjugation.

Common organic reactions - Substitution, addition, elimination and rearrangement.
Aromatic hydrocarbon - Aromaticity, electrophilic substitution, halogenation, Friedel-Craft's alkylation and acylation.
Isomerism in Organic Compounds: Definition, Classification – structural isomerism, stereo isomerism – geometrical and optical isomerism. Optical activity - chirality – compounds containing chiral centres – R, S notation, D, L notation.
Detection of the functional groups in organic compounds: Hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl and amino groups.

Alcohols and Ethers - Nomenclature of alcohols – Classification of alcohols - distinction between primary, secondary and tertiary alcohols – General methods of preparation of primary alcohols, properties. Methods of preparation of dihydric alcohols: Glycol – Properties – Uses. Methods of preparation of trihydric alcohols - Properties – Uses. Aromatic alcohols – preparation and properties of phenols and benzyl alcohol; Ethers – Nomenclature of ethers – general methods of preparation of aliphatic ethers - Properties – Uses. Aromatic ethers – Preparation of Anisole – Uses.

Aldehydes and Ketones - Nomenclature of carbonyl compounds – Comparison of aldehydes and ketones. General methods of preparation of aldehydes – Properties – Uses. Aromatic aldehydes – Preparation of benzaldehyde – Properties and Uses. Ketones – general methods of preparation of aliphatic ketones (acetone) – Properties – Uses. Aromatic ketones – preparation of acetophenone – Properties – Uses, preparation of benzophenone – Properties. Name reactions; Clemmensen reduction, Wolff–Kishner reduction, Cannizzaro reaction, Claisen-Schmidt reaction, Benzoin Condensation, Aldol Condensation and Haloform reaction. Preparation and applications of Grignard reagents.

6. Carboxylic acids, Organic nitrogen compounds, Biomolecules and Polymers

Carboxylic Acids and their derivatives - Nomenclature – Preparation of aliphatic monocarboxylic acids – formic acid – Properties – Uses. Monohydroxy mono carboxylic acids; Lactic acid – Synthesis of lactic acid. Aliphatic dicarboxylic acids; Preparation of oxalic and succinic acids. Aromatic acids: Benzoic and Salicylic acids – Properties – Uses. Derivatives of carboxylic acids; acetyl chloride (CH_3COCl) – Preparation – Properties – Uses. Preparation of acetamide, Properties – acetic anhydride – Preparation, Properties. Preparation of esters – methyl acetate – Properties

Organic Nitrogen Compounds - Aliphatic nitro compounds – Preparation of aliphatic nitroalkanes – Properties – Uses. Aromatic nitro compounds – Preparation – Properties – Uses. Distinction between aliphatic and aromatic nitro compounds. Amines; aliphatic amines – General methods of preparation –



Properties – Distinction between primary, secondary and tertiary amines. Aromatic amines – Synthesis of benzylamine – Properties, Aniline – Preparation – Properties – Uses. Differences between aliphatic and aromatic amines. Aliphatic nitriles – Preparation – properties – Uses. Diazonium salts – Preparation of benzene diazonium chloride – Properties.

Biomolecules and Polymers

Carbohydrates – Distinction between sugars and non-sugars, structural formulae of glucose, fructose, and sucrose, with their linkages, invert sugar – definition, examples of oligo and polysaccharides.

Amino acids and Proteins – Classification of amino acids with examples, Peptides - properties of peptide bond; Proteins - primary, secondary, tertiary and quaternary structure (qualitative idea only), denaturation of proteins, enzymes.

Lipids - Definition, classification with examples, difference between fats, oils, and waxes.

Nucleic acids – Chemical constitution of DNA and RNA.

Vitamins - Types and Function.

Polymers - Natural and synthetic polymers, methods of polymerization (addition and condensation), copolymerization. Some important polymers: natural and synthetic like polythene, nylon, polyesters, Bakelite, rubber. Biodegradable and non-biodegradable polymers.

Chemistry in Everyday Life – Chemicals in medicines – analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines. Chemicals in food – preservatives, artificial sweetening agents, elementary idea of antioxidants. Cleansing agents – soaps and detergents, cleansing action.

MATHEMATICS

1. Matrices and Applications

Algebra of matrices, Determinants and its properties – Adjoint and inverse of a square matrix using determinants and elementary transformations – Rank, Test of consistency and solution of simultaneous linear equations up to three variables – Solution of Linear Programming problem in two variables, Simple applications. - Theory of equations, Cubic, Biquadratic equations, and solutions.

2. Trigonometry and Complex Numbers

Fundamentals of Trigonometry, Trigonometric, inverse Trigonometric functions and their properties, heights and distances

Complex number system – conjugate, properties, ordered pair representation. Argand diagram, Algebra of complex numbers, modulus and argument (or polar form) of a complex number. Solution of polynomial equations – De Moivre's theorem, and its applications. Roots of a complex number – Cube and fourth roots.

3. Analytical Geometry of two dimensions

Coordinate geometry – Equation of a straight line and family of straight lines - Properties Definition of a conic – general equation of a conic, classification with respect to the general equation of a conic and eccentricity. Equations of conic sections (parabola, ellipse and hyperbola) in standard forms and general forms – Directrix, Focus and Latus-rectum – parametric form of conics and chords. – Tangents and normal's – Cartesian form and parametric form – equation of chord of contact of tangents.

4. Vector Algebra

Scalar Product and Vector product of two Vectors, properties and applications– Scalar and Vector triple product – Properties.

5. Analytical Geometry of Three Dimensions

Coordinates of a point in space, the distance between two points, section formula, directions ratios and direction cosines, the angle between two intersecting lines. Skew lines, the shortest distance between them and its equation. Equations of a line and a plane in different forms, the intersection of a line and a plane, coplanar lines.

6. Differential Calculus

Limits, continuity and differentiability of functions – properties – applications: tangent, normal and angle between curves. - Rate of change of quantities
Mean value theorems – Rolle's Theorem, Lagrange's, Cauchy's Mean Value Theorems, Taylor's and Maclaurin's series, stationary points, increasing, decreasing, minima and maxima, functions of one variable, concavity and points of inflexion-Errors and approximations.

7. Integral Calculus and its Applications

Indefinite integrals, Simple definite integrals – fundamental theorems of calculus, properties of definite integrals, Reduction formulae – Area of bounded regions, length of the curves.

8. Ordinary Differential Equations

Differential equations – formation, order and degree. Solution of first order differential equations: Variables separable, Homogeneous, Linear, Bernoulli's equations, and applications.

9. Probability and Statistics

Basics of Probability – Axioms – Addition law – Conditional probability – Multiplicative law – Baye's Theorem.
Random variables–Probability density function, distribution functions, mathematical expectation, variance – Measures of central tendency, Dispersion – Grouped and ungrouped Data.

10. Discrete Mathematics

Sets – Relations – Functions – Binary Operations and Types. Sequence and series (AP, GP, HP) – Binomial Theorem – Counting Techniques, Product rule, Permutations and Combinations

Mathematical logic – logical statements, connectives, truth tables, logical equivalence, tautology, contradiction, Contingency.

BIOLOGY

1. Taxonomy

Need for classification; three domains of life. Linnaean, Whittaker, Bentham and Hooker systems of classification. Salient features and classification of non-chordates up to phylum level and chordates up to class level. Morphology and anatomy of flowering plants. Structural organization in insects (cockroach).

2. Cell and Molecular Biology

Cell theory. Prokaryotic cell and it's ultrastructure. Eukaryotic cell- cell wall, cell membrane, cytoskeleton, nucleus, chloroplast, mitochondria, endoplasmic reticulum, Golgi bodies, ribosomes, lysosomes, vacuoles and centrosomes. Cell cycle and division - amitosis, mitosis and meiosis. Search for genetic material; structure of DNA and RNA; replication, transcription, genetic code, translation, splicing, gene expression and regulation (lac operon) and DNA repair.

3. Reproduction

Asexual reproduction – binary fission, sporulation, budding, gemmule formation and fragmentation, Vegetative propagation in plants. Sexual reproduction in flowering plants - structure of flowers. Pollination, fertilization, development of seeds and fruits, seed dispersal, apomixis, parthenocarpy and poly-embryony. Human reproductive system - Gametogenesis, menstrual cycle, fertilization, implantation, embryo development upto blastocyst formation, pregnancy, parturition and lactation. Reproductive health and assisted reproductive technologies.

4. Genetics and evolution

Chromosomes - structure and types, linkage and crossing over, recombination of chromosomes, mutation and chromosomal aberrations. Mendelian inheritance, chromosomal theory of inheritance, deviation from Mendelian ratio (incomplete dominance, co-dominance, multiple allelism, pleiotropy), sex linked inheritance and sex determination in humans. Mendelian disorders in humans-thalassemia. Darwinism, neo Darwinism, mechanism of evolution - variation (mutation and recombination), Hardy and Weinberg's principle and factors affecting the genetic equilibrium: selection, mutation, migration and random genetic drift.

5. Human health and diseases

Pathogens, parasites causing human diseases (malaria, dengue, chikungunya, filariasis, COVID, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ringworm) and their control. Basic concepts of immunology, vaccines, antibiotics, cancer, HIV and AIDS. Adolescence, drug and alcohol abuse.

6. Biochemistry

Structure and function of carbohydrates, lipids and proteins. Enzymes – types, properties and enzyme action. Metabolism - glycolysis, fermentation and Krebs cycle.

7. Plant physiology

Movement of water, food, nutrients, gases and minerals. Passive diffusion, facilitated diffusion, and active transport. Imbibition, osmosis, apoplast and symplast transport and guttation. Macro and micronutrients and their deficiency symptoms. Transpiration, photosynthesis (light and dark reactions) and electron transport chain. Hormones and growth regulators, photo- periodism and vernalization. Movements in plants, Nitrogen cycle and biological nitrogen fixation.

8. Human physiology

Digestion and absorption, breathing and respiration, body fluids and circulation, excretory system, endocrine system, nervous system, skeletal and muscular systems. Locomotion and movement, growth, aging and death. Hormones - types of hormones, functions and hormonal disorders (hypersecretion and hyposecretion).

9. Biotechnology and its applications

Recombinant DNA technology, applications in health, agriculture and industries; genetically modified organisms; Human insulin, vaccine and antibiotic production. Stem cell technology and gene therapy. Apiculture and animal husbandry. Plant breeding, tissue culture, single cell protein, fortification, Bt crops and transgenic animals. Microbes in food processing, sewage treatment, waste management and energy generation. Biocontrol agents and biofertilizers. Bio-safety issues, biopiracy and patents. Human and rice genome projects. DNA fingerprinting.

10. Biodiversity, ecology and environment

Ecosystems: components, types, pyramids, nutrient cycles (carbon and phosphorus), ecological succession and energy flow in an ecosystem; Biodiversity - concepts, patterns, importance, conservation, hotspots, endangered organisms, extinction, Red data book, botanical gardens, national parks, sanctuaries,

museums, biosphere reserves and Ramsar sites. Environmental issues: pollution and its control. Solid and radioactive waste management. Climate change impact and its mitigation. Population attributes - growth, birth and death rate and age distribution.

APTITUDE

1. Data Interpretation - Tabular Chart, Pie Chart, Bar Chart, Line Graph, Mixed Charts
2. Data Sufficiency - All topics combined
3. Syllogism - 2 statements and 2 conclusions, 3 statements and 2 conclusion, 2 statements and 4 conclusions, 3 statements and 4 conclusions, 3 statement and 3 conclusions
4. Number series, Coding, and Decoding - Number series, Letter to Letter Coding, Letter to Number Coding, Mixed coding
5. Clocks, Calendars, and Directions - Mirror image of the clock, Angle based questions, Gain or loss per day, finding days/dates, finding odd days, Occurrence of same calendar year, Directions faced with respect to the starting point, Distance between two points

ENGLISH

Multiple Choice Questions to test the comprehension of a short passage or line of poems, English grammar, and pronunciation. Please note that the passages, lines of poems, dialogues, grammar, and pronunciation items are chosen to suit the level of higher secondary or equivalent education.



LEGAL JURISDICTION

All Suits and actions arising out of or relating to VIT shall be instituted within the jurisdiction of courts at Vellore, Tamil Nadu only. The Registrar of the Institute shall be the legal person in whose name the Institute may sue or be sued.

- VIT Engineering Entrance Examination (VITEEE) for B. Tech. is common for VIT-Vellore, VIT-Chennai, VIT-AP and VIT-Bhopal.
- All admissions are based on VITEEE ranking and the students can select the programme / campus of their choice based on the availability seats during counselling.
- All admissions are subject to the discipline and conduct of the candidate.
- The admissions are done in a transparent manner only on merit basis. Please do not pay any money to Consultants/ Brokers / Intermediaries. There is neither MANAGEMENT QUOTA nor CAPITATION FEE at VIT. It is illegal to approach any agent which will result in cancellation of admission
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Engineering Rank - 16
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A++

SHANGHAI RANKING 2026

India Rank - 3-4
Global Rank - 601-700

THE World University Rankings 2025

Global Rank
601-800

QS WORLD UNIVERSITY RANKINGS BY SUBJECT | 2026

14 Subjects ranked among
TOP 500
universities
in the World

QS WORLD UNIVERSITY RANKINGS
World University Rankings 2027*

Global Rank
597

QS WORLD UNIVERSITY RANKINGS BY SUBJECT | 2026

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(World Rank)
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