

# VITEEE



**VIT**<sup>®</sup>  
UNIVERSITY  
(Estd. u/s 3 of UGC Act 1956)  
VELLORE ■ CHENNAI  
[www.vit.ac.in](http://www.vit.ac.in)

# VITEEE - 2014

VIT Engineering Entrance Examination



## Information Brochure

Admissions to **B. Tech Degree Programmes 2014-2015**

VIT- A place to learn; A chance to grow

## VITEEE - 2014

### IMPORTANT INSTRUCTIONS FOR FILLING UP OF OMR APPLICATION FORM

1. Please make sure that you are using the correct application form.
2. Your application will be machine-processed. Use only black ball-point pen and CAPITAL letters to enter the required information. Use only pencil to shade the circle to correspond with the code / appropriate alphabet / numeral, which you have entered as your option.
3. Do not scribble, smudge, tear or wrinkle the application form. Do not put any stray marks anywhere on the application form.
4. Your photograph, signature and address will also be scanned by a machine that recognizes only good quality images. Therefore, paste a good quality, recent, passport size colour photograph and sign in the space provided in black ball-point pen only. Do not stick the attested photograph.
5. Write the complete address giving your name and PINCODE carefully and legibly. Please note that this block will appear as such in all our correspondence with you. In case you happen to make a mistake, cover the whole box with a slip of white paper of the same size and write your address on it. Your address must not exceed the box.
6. The use of address of any coaching centre / Institution is strictly prohibited. If anybody uses the address of any coaching centre / Institution in his / her application form, it will be rejected.
7. Do not staple, pin, stitch or stick anything on the application form. Paste only the photograph in the space provided.
8. Ensure the correctness of your mailing address, PINCODE, valid e-mail id, Telephone number with correct STD CODE and provide mobile number. Please note that VIT will not be responsible if communications do not reach you due to incomplete or illegible address, invalid e-mail id and wrong mobile number.
9. You must quote your application number as reference in all your future correspondence.
10. The completed application form should be enclosed separately in the printed envelope provided, addressed to **Director-UG Admissions**, VIT University, Vellore- 632014 and sent through Registered Post or Speed Post, so as to reach the Office of Admissions on or before **28<sup>th</sup> February 2014**.
11. VIT will not accept the responsibility for any postal delay/irregularity or loss in postal transit.
12. Ensure that your application is complete in all respects. An incomplete application or an application filled in a language other than English will be summarily rejected.

13. Options given in the application form cannot, in general, be altered at a later stage.
14. The cost of the application material is **non-refundable**.
15. **You should retain a photocopy of the application form for all your reference.**

⇒ For online application form visit [www.vit.ac.in](http://www.vit.ac.in)

⇒ For downloading admit card visit [www.vit.ac.in](http://www.vit.ac.in)

⇒ Those who have applied online need not send OMR application form, but they need to send the printout of the Online application form.

### CHECK LIST

Before posting the application please ensure that

- \* You have read the instructions before filling in the Application Form.
- \* You have used a black ball-point pen to enter the codes in the boxes and pencil to shade the alphabet/ numeral/circle as indicated.
- \* You have affixed a good quality recent, colour photograph in the space provided.
- \* You have not got the photograph attested.
- \* You have clearly and legibly written your complete postal address to which communication is to be sent.
- \* You have entered your correct PINCODE.
- \* You have indicated your correct STD code and Phone No./ Mobile No.
- \* You have mentioned your correct e-mail id.
- \* You have signed in the space provided below the photograph.
- \* Your parent / guardian has signed in the declaration form.
- \* You have not used any pins or stapler in your application.
- \* You have clearly indicated whether you require hostel accommodation or not.
- \* You have entered the correct Test City Code on the envelope provided.
- \* You have retained a photocopy of your application.
- \* You have entered your application number

2 0 1 4

for all future reference.

VITEEE *pronounced "witty"*

## CONTENTS

1.	Introduction	2
2.	Programmes offered	2
3.	Eligibility	2
4.	Admission procedure	3
5.	Schedule of VITEEE – 2014	3
6.	Pattern of the Entrance Examination	3
7.	Important instructions pertaining to VITEEE – 2014 (CBT)	3
8.	Application forms	4
9.	e-Tracking / SMS	5
10.	Test Cities for VITEEE – 2014	5
11.	e-Admit Card	5
12.	Results	6
13.	Scholarship under “GV School Development Programme”	7
14.	Tuition and Special fees	7
15.	Counselling	7
16.	Payment of balance fees	8
17.	Submission of documents on Admission	8
18.	Hostel – Vellore and Chennai Campus	9
19.	Instructions for completing the computerized OMR application form	9
20.	Check list	13
	Appendix-I-Codes of the State / Union Territory	14
	Appendix-II-Codes of the School Education Boards of Class XII	14
	Appendix-III-Codes of the Test Cities for the VITEEE-2014	15
	Appendix-IV-Syllabus for VITEEE-2014	16
	Appendix-V-Sample Questions	21
	Annexure-I-Affidavit by student	25
	Annexure-II-Affidavit by Parent/Guardian	26
	Annexure-III-Certificate to prove Nativity and Community	27
	Important dates	28

## 1. Introduction

VIT is emerging as a benchmark for continuous journey towards excellence, among the institutions of higher education in the field of technology in the country. Its values of equality, transparency and healthy collaboration have been ably guided by the leadership of its founder **Dr. G. Viswanathan**, renowned for his principled life devoted to public service.

The ubiquitous sense of joy and enthusiasm observed in the campus bears testimony to the positive learning and living experiences enjoyed by every student at VIT. Ours is a place where opportunities for learning as well as recreation are maximized and distractions are minimized.

VIT Students get to feel the taste of a boundaryless world through a heterogeneous mixture of students from across the globe, who have made VIT as their institution of choice.

VIT has long since been devoted to providing quality education in various Engineering disciplines of Science and Technology and of late it has proliferated into frontiers of Research as well. The Institute has a rigorous selection procedure to admit the students into various programmes. An exclusive entrance examination for all B.Tech. programmes, Vellore Institute of Technology Engineering Entrance Examination (VITEEE), is conducted for all those aspiring for a career in engineering.

## 2. B.Tech. Programmes offered at Vellore Campus

- Bio-Medical Engineering
- Biotechnology
- Civil Engineering
- Computer Science and Engineering
- Computer Science and Engg (Spec. in Bioinformatics)
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Electronics and Instrumentation Engineering
- Information Technology
- Mechanical Engineering
- Mechanical ( Spec. in Automotive Engineering )
- Mechanical ( Spec. in Chemical Process Engg. )
- Mechanical ( Spec. in Energy Engineering )
- Production and Industrial Engineering

### 2.1 B. Tech. Programmes offered at Chennai Campus

- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering

## 3. Eligibility

### 3.1. Nationality:

The applicant for admission should be a **Resident / Non Resident Indian National**.

### 3.2. Qualifying Examination:

Candidates appearing for the **VITEEE-2014** should have either completed or shall be appearing in 2014, in any one of the following qualifying examinations:

The final examination of the 10+2 system of Higher Secondary Examination conducted by the State Board, Central Board of Secondary Education (CBSE, New Delhi), The Council for Indian School Certificate Examination (ISCE, New Delhi).

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

High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.

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

Candidates who have studied in Regular, Full time and Formal Education are alone eligible to apply.

### 3.3. Eligibility Criteria in the Qualifying Examination:

Candidates appearing for the VITEEE in 2014 should have secured an aggregate of 60% in Physics, Chemistry, Mathematics/Biology in the qualifying examination (+2/Intermediate).

The average marks obtained in the subjects Physics, Chemistry and Mathematics or Biology (PCM / PCB) in +2 (or its equivalent) put together should be 50% for the following categories:

- Candidates belonging to SC/ST
- Fill in the proforma as given in Annexure III and have it attested by a competent authority (The list of authorities empowered for the same is given in Annexure III).
- Candidates hailing from Jammu and Kashmir and the North Eastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.
- Fill in the CERTIFICATE TO PROVE NATIVITY (proforma given in Annexure III).

**These documents should be produced at the time of counselling, failing which they will not be considered for admission.**

In case the marks statement is not produced by the candidates at the time of admission, the decision of the Management regarding his/her eligibility and admission to the programme shall be final.

- **Candidates who have studied Physics, Chemistry and Mathematics are eligible for all the 14 B.Tech. Degree Programmes.**
- **Candidates who have studied Physics, Chemistry and Biology are eligible for B.Tech. Bio-Medical Engineering and Biotechnology programmes. They are also eligible for B.Tech. Computer Science and Engg (Spec. in Bioinformatics) but after joining, registering Mathematics as bridge course is mandatory.**

### 3.4. Additional Information:

It is the responsibility of the candidates to ascertain whether they possess the requisite qualifications for admission. Having been called for the test / counselling does not necessarily mean acceptance of the eligibility.

It is mandatory that all the original relevant documents (such as Marks statement, Transfer Certificate, Conduct Certificate, etc.) should be submitted to the Admissions Office at the time of admission.

Admission to various programmes will however be subject to verification of facts from the original certificates/documents of the candidates. In case any discrepancy arises, even at a later point of time after admission, the management reserves all right to cancel the candidate's admission and this decision shall be final.

### 3.5. Age Limit :

Candidates whose date of birth falls on or after **1<sup>st</sup> July 1992** are eligible to apply for VITEEE-2014. The date of birth as recorded in the High School / SSC / X Certificate will be considered authentic. Candidates should produce this certificate in original as a proof of their age at the time of counselling, failing for which they will be disqualified.

## 4. Admission Procedure

- The admission will be purely on the basis of the marks secured in the VITEEE-2014, conducted by VIT University.
- **Candidates who have not appeared for the VITEEE are not eligible for admission.**
- The candidates will be short-listed based on their entrance examination marks and will be called for the counselling.

## 5. Schedule of VITEEE-2014 – Computer Based Test (CBT)

- VIT Engineering Entrance Examination will be conducted from **09.04.2014 to 20.04.2014**
- The duration of the entrance examination will be 2 hours 30 minutes.
- Please refer slot booking for further details in **www.vit.ac.in** from **March - 2014 onwards**.

## 6. Pattern of the Entrance Examination – CBT

### 6.1. Question Paper:

- All Questions will be of **OBJECTIVE TYPE**.
- PART-I – Physics
- PART-II – Chemistry
- PART-III – Mathematics / Biology
- **Candidates attempting Parts-Physics, Chemistry & Mathematics are eligible for all the 14 programmes offered.**

- **Candidates attempting Parts-Physics, Chemistry & Biology are eligible for B.Tech. Bio-Medical Engineering, Biotechnology and Computer Science and Engg (Spec. in Bioinformatics) programmes only.**
- **The selection of pattern (Physics/ Chemistry / Mathematics or Biology) has to be decided at the time of slot booking.**
- All the questions will be mostly from the State Board of Higher Secondary Education and the CBSE syllabus only. The syllabus for the Entrance Examination is given in APPENDIX-IV of this Brochure.
- Each part has 40 questions and each question carries one mark.
- Each question is followed by 4 alternative answers. The candidate will have to choose the correct answer and click the same.
- No negative marks for wrong answers.

### 6.2. Language of the Question Paper:

The Question paper will be only in English.

## 7. Important Instructions pertaining to VITEEE - 2014 - CBT

**The salient features of the Computer Based Test are:**

- The candidate sits in front of the computer and the questions are presented on the monitor.
- The candidate submits his or her answer through the use of mouse.
- The computer is connected to the server, which delivers the encrypted test in real time through a secure and reliable connection.
- Entrance test assumes that the candidate has the basic familiarity with the use of computer like use of keyboard and mouse operation.
- It is the responsibility of the candidate to acquire these skills before appearing in the entrance test and the University cannot take the responsibility for the same.

### Computer Based Test Procedure

- The candidates must ensure that the computer allotted to them is switched on and any problem with the computer should be informed to the invigilator immediately.
- The questions appearing on the screen will be in English. All questions will be of the Multiple Choice Question (MCQ) type. Each MCQ consists of a stem which may be in the form of a question or an incomplete statement and four responses labeled A, B, C and D. Only one of the four responses is the correct answer. Candidate needs to choose that answer. Candidates can navigate freely through the questions back and forth.

**Important Note**

- **The number of examination days will be estimated based on the total number of applications received for the particular group of courses and the test centre choices given by the candidates in the application form.**
- In the rare and unlikely event of a technical failure during the test, the candidate may be required to attempt the test again. Candidate must visit [www.vit.ac.in](http://www.vit.ac.in) regularly to obtain latest news, information and updates on the entrance test.
- VIT reserves the **rights to reschedule** the examination for a candidate. In rare and unlikely event of a technical failure during the test, the candidate may be required to attempt the test again. The candidate will not be charged any additional entrance exam fee if the re-schedule is initiated from VIT. However, the candidate has to make his/her own arrangements at his/her cost similar to the original schedule to take the test for the revised schedule.

**7.1 Online Test Booking System**

- Online Test booking system is a web based online scheduling system available at [www.vit.ac.in](http://www.vit.ac.in).
- **Candidate should first choose the Test City (This should be the same as chosen in the application form) and then the date and the batch for the exams.**
- The schedule bookings are done on a first-come first served basis and are subject to the availability of the test centre date and time.

**Online Test Booking Password**

- **For both OMR and online applicants, the password will be sent by email to the email address mentioned in the application form. Therefore it is mandatory to give valid email address.**
- University will not be responsible for non receipt of the email, if the email address given is incomplete or incorrect.
- The security of your Online Test Booking Password is totally your responsibility. VIT University will not be held accountable or responsible for any claim or loss that results directly or indirectly from any unauthorized use or misuse of your online test booking password.
- The Online Test Booking Password must be kept confidential. Do not disclose it to others or write them down or store them in a file on your computer or as auto save password.
- Your Online Test Booking Password is required only for the purpose of booking a schedule given by the University. Please note that the online test booking system will not allow the candidates to book a slot after the booking end date.

**Online Test Booking Procedure**

- While booking your test schedule, please ensure that you have a photocopy of the application form you submitted and the Online Test Booking Password.

- After logging into the Online Test Booking System you have to select the test you wish to apply for i.e. you have to select Physics / Chemistry / Mathematics or Physics / Chemistry / Biology from the drop down menu to proceed further.
- **A slot once booked cannot be changed. Request for change of test city, date or slot will not be entertained under any circumstances.**
- In case of non availability of slots in a test centre of choice, the candidate may choose to book a slot in an alternative centre / date.
- The online test booking system is available only for those eligible candidates who have submitted the application form complete in all respects on or before the last date mentioned.
- It is the responsibility of the candidate to book their test schedule in ONLINE TEST BOOKING SYSTEM within the given time frame. VIT will not be held accountable for the non bookings. The entrance test fee will not be refunded under any circumstances for such cases.
- The confirmation mail will be automatically sent to the candidate's email address after he/she has booked his/her schedule through the Online Test Booking System.
- Also once the booking is complete the e-Admit card will be generated which needs to be printed by the student from our website [www.vit.ac.in](http://www.vit.ac.in)

**8. Application Forms****8.1. Issue of Application Forms - Online**

Candidates can also apply online at [www.vit.ac.in](http://www.vit.ac.in) through the following mode :

- Net banking /Credit card/Debit card
- DD mode (online applicants need to pay ₹ 925/- only).

It is mandatory that the online applicants should send the **hard copy of the application** form to the University addressed to the "Director-UG Admissions", VIT University, Vellore-632014.

**8.2. Issue of Application Forms - OMR**

- The Prospectus and the information brochure for the B.Tech. programme, along with the necessary enclosures which include the Application Form and a printed self addressed envelope, can be obtained against cash payment of ₹ 975/- from the various post offices as given in the VIT website: [www.vit.ac.in](http://www.vit.ac.in)

Candidates can obtain the application form in person from the

- VIT University, Vellore Campus
- VIT University, Chennai Campus
- Chennai Administrative Office,

New No. 6, (Old No. W-73), Second Street (Opposite Towers Club), Anna Nagar, Chennai – 600 040 (Phone:044-42016555, 65480555, Fax: 044-26222555), by handing over a Demand Draft for ₹ 975/- drawn in favour of 'VIT University', payable at Vellore.

- Candidates can also obtain the application form through post by sending a Demand Draft for ₹ 975 /-drawn in favour of 'VIT University', payable at Vellore, with a covering letter addressed to "Director - UG Admissions", VIT University, Vellore-632014, requesting for the application form and indicating their complete postal address. On receipt of the DD, the application form with the enclosures will be sent by post. The postal charges will be borne by the Institute. Candidates should write their name, Mobile Number and address on the reverse of the DD.
- Candidates are advised to purchase the information brochure/ application form only through means mentioned above and not from any private publishers / vendors. Fake application forms will not be processed and will be rejected.

### 8.3. Returning the Completed OMR Application:

The application form duly completed should be checked if all the items have been correctly filled and appropriate codes indicating your exact choice have been put in the right spaces provided against each. You are advised to go through the checklist available on the inside front cover of the brochure. Also ensure that you have adhered to the instructions for completing the computerized OMR application form (section-19 in the brochure) before mailing the application. The application should be refolded only along the original fold and inserted in the envelope provided.

Your application should be sent through either by Registered Post or Speed Post in the self-addressed envelope provided by VIT so as to reach the office positively on or before February 28, 2014. Before despatching the application form ensure that you have filled in the correct Test City Code and tick the checklist on the envelope provided.

#### Note:

Incomplete application form shall not be considered and no correspondence shall be made in this regard.

**The application form once sold shall not be taken back under any circumstances nor the application fee, refunded in any case.**

### 8.4. Receipt of Completed Application Form:

**The last date for the receipt of completed application forms at VIT is February 28, 2014.**

Any application received after last date will not be accepted. Any delay in receiving the application by the candidate will not be considered a valid reason for late submission. The Institute will not accept responsibility for any postal delay, irregularity or loss in postal transit.

## 9. e-Tracking / SMS

For the benefit of the candidates, the following arrangements have been made to inform the status of the application, venue of the entrance examination and results.

Once the application is received at VIT, a message will be sent through SMS to the candidates stating that their application has been received at VIT. This would however be possible only if the mobile number is correctly shaded in the application form. The candidates may also track the status of their application by typing their application number in the

VIT website. However, this feature can be availed of only after about 3 weeks of despatch of their application.

At the time of publication of the results, the rank will be intimated through SMS as well as it will be available in the website as mentioned in 12.2.

## 10. Test Cities for VITEEE-2014

The VITEEE - 2014 will be held in 112 cities. The list of Test Cities along with their corresponding codes is found in APPENDIX- III of this information brochure.

## 11. e-Admit Card

### 11.1. Important Information:

- The e-Admit card will be generated once the candidate has booked his/her schedule through the Online Test Booking System.
- The e-Admit card will be auto generated for only those candidates who book a slot using the Online Test Booking system before the last date.
- The e-Admit card will indicate the e-Admit card number, photograph of the student, address of the test center, test date & time selected by the candidate. Discrepancies, if any, must be brought to the notice of VIT University immediately.
- The e-Admit card will be made available for candidates on [www.vit.ac.in](http://www.vit.ac.in). Candidate should provide the application form number and Online Test Booking password to download the e- Admit card.
- The copy of the e-Admit card will also be emailed to the candidate.
- **Candidates must provide valid email ID in the application form.** The e-Admit card will not be despatched to candidates via post or fax.
- Candidate should ensure that a printer is connected to their computer while printing the e-Admit card.
- Candidate should take a print out of the e-Admit card using the print option on A4 size paper only. Please ensure that all information on the e-Admit card including photograph is clearly visible on the print out.
- The candidate will not be permitted to appear for the test without valid e-Admit card.
- The candidates must not mutilate the e-Admit card or change any entry made therein after it has been authenticated & received by them. Impersonation is a legally punishable offence.
- The e-Admit card is an important document and it must be preserved and produced at the time of Counselling / admission.

Candidate should report to the selected test centre with

1. e-Admit card
2. Photocopy of the application form and
3. Any one of the following for photo identification.
  - a. Passport

- b. Driving License
- c. Voter ID card
- d. IT Pan card
- e. School or college Photo ID card
- f. Twelfth Standard board exam hall ticket (or) admit card bearing photo.

### 11.2. Admit card will not be processed if the Application is incomplete:

- In the case of an eligible candidate, whose application form is incomplete (For eg. Declaration not signed, no signature below the photograph, photograph not affixed on the application form, address not clearly written, **invalid email id** etc.), the application will not be processed for the issue of an Admit Card. VIT does not take the responsibility to inform such candidates.
- **Candidates are advised to doubly check that the application form (online / OMR) is complete in all respects before posting.**

### 11.3. Biometric Verification:

- **Biometric registration** is a part of attendance & 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 cooperate during the biometric 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 counselling and joining. All candidates are expected to cooperate and plan their time accordingly.
- Candidates are not allowed to carry any item other than the documents mentioned in information brochure (Refer Page number: 5, item: 11.1) to the examination hall. VIT will not be responsible for any loss of Valuables.

### Mock / Demo Test :

A mock test will be available to the candidates on the website [www.vit.ac.in](http://www.vit.ac.in). This is mainly designed to provide the candidates to be aware of the procedure and to get use to the various components of the exams. The mock test will give the candidate an idea of all the features of the entrance test. The mock test will be in the form of flash file that can be downloaded to the system and candidate can go through the entire flash file of the demo/mock test multiple times.

### Do's for the candidates

- You should be present at the test centre as per the reporting time mentioned in the e-Admit card.
- You have to register your name in the registration counter and must carry the e-Admit card and a valid ID proof for verification.
- You have to sit in your allotted seat only.
- You have to maintain perfect silence and work on your testing process only.
- You must sign the attendance sheet in the presence of invigilator.

### Don'ts for the candidates

- You will not be allowed to carry any textual material, printed or written, bits of papers or any material except the e-Admit card inside the test hall.
- You are also not permitted to carry any electronic devices like mobile phones, paging devices, calculators, spy cameras and music systems.
- You will not be allowed to go outside the test hall till the completion of the entire duration of the exam time.
- You are not allowed to eat or drink anything (snacks, tea, coffee and cool drinks etc.) inside the test hall. Plain water bottles with nothing written or printed on them will be allowed.

- Violation of any instruction and adoption of any unfair means in the examination hall will make the candidate ineligible for admission.
- Impersonation (or any such crimes) will be reported to Police.

## 12. Results

### 12.1. Rank List:

A merit list will be prepared based on the total marks secured in the VITEEE – 2014.

**Note:** There is no provision to send the marks of the candidates (selected or unselected) by post. At the time of publication of the results, the rank will be intimated through SMS, if the mobile number of the applicant is provided.

Since the machine gradable sheets are graded and scrutinized with extreme care, there is no provision for re-grading and re- totalling. The photocopies of the answer sheets will not be made available. No correspondence in this regard will be entertained.

### 12.2 Announcement of Results:

**The entrance examination results will be available in the following websites:**

★[www.vit.ac.in](http://www.vit.ac.in)

- ★[www.schools9.com](http://www.schools9.com)
- ★[www.indiaresults.com](http://www.indiaresults.com)
- ★[www.minglebox.com](http://www.minglebox.com)
- ★[www.shiksha.com](http://www.shiksha.com)
- ★[www.bharathedu.com](http://www.bharathedu.com)
- ★[www.examresults.net](http://www.examresults.net)



### 12.3 Equating Methodology:

Equating is a statistical process that is used to adjust scores on test forms (that are approximately equivalent) so that scores on the forms can be used interchangeably. Thus, equating is used to adjust scores of candidates who have taken different forms of a test, in order to facilitate meaningful and fair comparison for merit list and ranking of these candidates. The statistical procedure of Equipercentile

Equating would be used by VIT to identify the percentile ranks for candidates, such that scores on different forms with the same percentile rank are considered to be equivalent. Thus, Percentile Rank is a unique and invariant position of the test taker in that group. A percentile Rank, say 90 Percentile Rank denotes that there are 90 percent of test takers scores below this score level and 10 percent above this test score. Candidates are advised not to make assumptions and predictions of their score or rank based on their own estimates of raw scores.

### 13. Scholarship under “GV School Development Programme” (GVSDP)

Performance	Scholarship
Toppers of each State Board and Central Board	100% Tuition fee waiver for all the four years.
VITEEE rank holders of 1 to 50	75% Tuition fee waiver for all the four years.
VITEEE rank holders of 51 to 100	50% Tuition fee waiver for all the four years.
VITEEE rank holders of 101 to 1000	25% Tuition fee waiver

### 14. Tuition and Special Fees

Please refer to our website [www.vit.ac.in](http://www.vit.ac.in)

### 15. Counselling

#### 15.1. Advance Payment :

The selected candidates will have to submit the DD for ₹ 30,000 /- in favour of ‘VIT University’, payable at Vellore, on the confirmation of seat and acceptance of branch allotted. This includes ₹ 10,000 /- towards counselling fee. **Counselling fee is NON-REFUNDABLE**, but it will be adjusted in the tuition fees once the candidate joins the University.

#### 15.2. Counselling procedure for allocation of seats/ branch:

The counselling for allocation of branches to the short-listed candidates is based on their All India Rank (AIR) in the VITEEE-2014. A candidate may obtain this information on our website or by calling the VIT office, on the day after the declaration of the results of VITEEE-2014.

The intimation regarding counselling dates will be displayed in VIT website and also SMS will be sent to the qualified candidates after declaration of results. Common selection and Admission procedure will be followed through single window counselling at Vellore and Chennai campus for all the B.Tech programmes offered in both the campuses of VIT University.

Candidates who have been shortlisted for counselling should also attend the same in person either in Vellore or Chennai campus.

To take care of possible absentees, the number of qualified candidates is kept more than the number of seats available in VIT University. The fact that a candidate has qualified in the VITEEE-2014 and has been called for the counselling does not guarantee admission to him / her. This will depend upon the candidates All India Rank (AIR) in the entrance examination and the availability of seats.

Details of various branches offered under the B.Tech programme in the current year, the total number of seats allocated for each branch at the time of counselling, number of seats still available will be displayed at the counselling centre for the benefit of candidates to make their choice. Based on the availability, the candidate will be allotted the branch.

VIT will in no way be responsible for counselling information not reaching the candidates. They should check the VIT website: [www.vit.ac.in](http://www.vit.ac.in) for information on counselling.

No change of date / time of counselling is permissible. If a candidate does not personally appear before the Admission Committee for counselling on the date specified, his/her seat shall be offered to the next candidate in the order of merit.

However, due to unforeseen reasons, if a candidate is unable to attend the counselling on the specified date and time, he / she can attend on a subsequent time / date, after duly intimating the office, regarding this. But the candidate can only opt for the branch available at that time and cannot claim any other branch as per his / her original turn / seniority.

After the counselling for a particular day is over, the number of seats (branchwise) still available for allotment on the next day of counselling will be published in the website and will also be displayed on the notice board of the Institute for the benefit of candidates.

**If the mark statement of the qualifying exam has not been received before the date of counselling, the candidate would have to furnish an undertaking stating that if he/she fails to qualify as per the norms, it would lead him / her to forego his / her seat.**

#### Advance payment for Hostel

Candidate requiring hostel accommodation will have to submit a separate crossed Demand Draft for ₹ 20,000/- drawn in favour of ‘VIT University’, payable at Vellore and 4 nos. of recent passport size colour photos along with a hostel

application form which is given at time of room counselling to the Chief Warden Office to confirm the hostel room.

Payment of Hostel Advance does not necessarily guarantee Hostel Accommodation. Hostel Accommodation will be made subject to availability.

### Submission of Documents at the Time of Counselling

The candidates should produce the following **documents in original along with one set of photocopies while reporting for counselling**. Candidates will not be allowed to participate in the counselling process without these documents.

- VITEEE-2014 e-Admit Card
- Class X Board Certificate as a proof of date of birth or any age proof Certificate
- Marks Sheet of Qualifying Examination (if available)
- Community Certificate (For SC/ST only)
- Nativity Certificate (For candidates hailing from Jammu and Kashmir and the North Eastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura).
- DEMAND DRAFT for ₹ 30,000/- drawn in favour of 'VIT University', payable at Vellore.

Candidates without DD for the above said amount will not be permitted to attend counselling.

It is only after the verification of documents, candidates will be allowed to participate in the counselling process. Authentic records pertaining to identification, age, marks sheet of qualifying examination, community, nativity (if applicable) and other eligibility criteria as specified in section-3, will be checked. If a candidate fails to produce any of these documents, he/she will not be considered for admission.

A candidate should decide for certain on whether he / she should join the programme based on the branch allotted to him / her at the time of counselling before the payment of the fee.

**Allotment of branch & Campus once made is final and cannot be changed under any circumstances.**

## 16. Payment of Balance Fees

The balance fee should be paid in the form of a DD drawn in favour of 'VIT University', payable at Vellore along with a covering letter should reach the Director - UG Admissions on the date specified in the provisional admission letter. The candidates should write their name, application number, Rank and the branch allotted at the time of counselling on the reverse of the DD. Intimation will not be sent separately in this regard.

Accordingly candidates admitted in Chennai campus should send it directly to the Chennai Campus address mentioned in the form issued at the time of counselling.

DD received after the due date (mentioned in the provisional admission letter) will not be entertained.

## 17. Submission of documents on admission

The following documents in **original** are required to be submitted at the time of Admission:

- Qualifying examination mark statements of all attempts
- Transfer Certificate / School Leaving Certificate
- Migration Certificate (if issued by the board)
- Conduct Certificate
- Community Certificate (For SC/ST only)
- Nativity Certificate (For candidates hailing from Jammu and Kashmir and the North Eastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura).
- Provisional Admission Letter. (photo copy)
- Recent Passport size colour photos – 4 nos.
- Affidavit to be signed separately by Student & Parent in ₹ 20/- Stamp Paper. (Format is available in [www.vit.ac.in](http://www.vit.ac.in))
- 2 sets of photocopies of all original documents. (except Affidavit)

Students hailing from Andhra Pradesh Intermediate Board of Education should make it a point to submit their Pass Certificate Cum Memorandum of Marks at the time of admission.

Candidates can download the acknowledgement for the documents submitted from the VIT website. No written acknowledgement will be issued.

All the above referred documents shall be handed over to the Admissions Office at the time of admission, failing which the provisional admission accorded will stand cancelled.

### 17.1. Submission of 'No Dues' Certificate

A student once enrolled for a course is expected to complete the same. He/ She cannot withdraw from the University without informing the Registrar in writing. Otherwise he / she will be liable to pay fees for the period and his / her name remains on the rolls.

A candidate who desires to leave the University after joining the programme will have to submit a 'NO DUES' Certificate from his / her respective school of study at VIT to get back the certificates. This should be accompanied by the application for withdrawal duly signed by the Parent/Guardian (Fax / e-mail request will not be considered) and the original fee receipt and provisional admission letter.

The certificates will be issued only on production of 'NO DUES' Certificate in the prescribed form, obtained from the Admissions Office.

## 17.2. Refund of Fees

The refund will be made as per the norms of the UGC. **The Counselling fee ( ₹ 10000/-) is NON-REFUNDABLE**, but it will be adjusted in the tuition fees once the candidate joins the University.

All refundable deposits will be returned, after deductions if any, at the time of completion of the course or on cancellation of admission.

Refund will be made only after submission of original fee receipt, Provisional Admission letter and No Dues Certificate. Refund DD will be made in the name of candidate only.

## 17.3. General Discipline

All candidates admitted to the Institute shall maintain good conduct, pay the requisite tuition fees and other charges by the due dates, attend their classes regularly and abide by the rules and regulations of the Institute. If at any point of time, the conduct and character of a candidate is not satisfactory or is of a suspicious nature, the Management reserves the right, without assigning any reason, to make him /her vacate the hostel or expel him/her from the University.

Initial admission applied only to the first semester. Admitted students are expected to maintain registration until the completion of the course, to the satisfaction of the Institute.

All students have to comply with the rules and regulations that are already in force or may be amended from time to time by the competent authority during the period of study.

### 17.3A. General Instructions

The date of commencement of classes will be mentioned in the provisional admission letter. No communication will be sent to the candidates regarding this. Candidates are advised to visit the University website for changes, if any.

Candidates should report to classes within 7 days from the date of commencement of classes, failing which, the admission granted will be cancelled automatically.

Semester scheme is followed and the medium of instruction and examination is in English.

### 17.4. Measures for prevention of ragging at the institution level:-

Ragging is totally prohibited in the institution, and anyone found guilty of ragging and / or abetting ragging, whether actively or passively, or being a part of a conspiracy to promote ragging, is liable to be punished in accordance with these regulations as well as under the provisions of any penal law for the time being in force.

Ragging juniors in any form is forbidden. If any one is found in ragging his/her juniors, he/she can be rusticated from the Institute.

It is mandatory that candidates and parents who are attending counselling have to sign an undertaking as the information given in (as per UGC Regulations-2009, [www.ugc.ac.in](http://www.ugc.ac.in)) Annexure-I & II in ₹ 20/- non-judicial bond paper. Format is also available on [www.vit.ac.in](http://www.vit.ac.in)

## 18. Hostel - Vellore and Chennai Campus Hostel Accommodation:

Separate hostel accommodation is available for boys and girls in both Vellore and Chennai campus.

Hostel accommodation will be provided only to those candidates whose residence is beyond 100 kms radius from the University Campus. Single room accommodation will not be available for first year undergraduate students.

For details regarding Establishment Charges, Mess, etc., please visit [www.vit.ac.in](http://www.vit.ac.in)

## 19. Instructions for completing the computerised OMR application form

- The application form should be filled by the candidate in his/her own handwriting.
- **It is suggested that the candidate make a photocopy of the form and use it for practice. ONLY THE ORIGINAL APPLICATION FORM SHOULD BE SENT.**
- Read the instructions carefully before filling in the application form. Requests for corrections will not be entertained later. Refer to the specimen copy enclosed in this brochure.
- Your application form will be Machine-processed. **First, write in CAPITAL LETTERS the required information or enter the relevant code with a black ball-point pen in the box(es) (wherever provided). Shade the alphabet/numeral circle corresponding to the above using HB pencil only.** What you write in the boxes is only for your guidance and for verification that you are shading the correct alphabet / numeral option.
- If you wish to change a marking, erase the shaded spot completely and then shade the appropriate alphabet / numeral.
- **Do not scribble, cut, tear or wrinkle the application form. Do not put any stray pencil marks anywhere on the application form.**
- **Do not write or make any marks on the Barcode.**
- Your photograph, signature and address are to be machine-scanned. The machine recognizes only good quality images. You are therefore to paste a good quality colour photograph with light colour background taken not more than two months earlier and write your address and signature in black ball-point pen only.
- **Please note that your name, your parent's / guardian's name and your date of birth should be exactly the same as given in your High school / +2 / Intermediate/Pre-University examination certificate.**
- Your application must be complete in all respects. **An incomplete application or application filled in a language other than English will summarily be rejected. Options filled by you in the application form cannot be changed at a later stage.**
- **Please note down the ten digit application number for future reference.**

### Item-1-Name of the Candidate

Write your name in capital letters as it appears or would appear in your XII Std certificate. Write only a single letter in a box. Do not leave any blank box between the letters in a name. **One box should be left blank between consecutive words of your name.** If your name has several initials, leave one blank after each of them. Shade the corresponding alphabet underneath each letter of the name. Do not write Mr., Miss, Km. etc before your name.

**Item-2-Date of Birth**

Write the date, month and year of your birth as per the English calendar and as recorded in your School Board/+2/ Intermediate/ Pre-University examination certificate. Use numerals 01 to 31 for DATE, numerals 01 to 12 for MONTH, and the last two digits for the YEAR of birth. For example, if born on 1<sup>st</sup> July 1992, the date should be entered as follows: 01 07 92. Shade the corresponding numerals for date, month and year in each column.

**Item-3-Gender****Item-4-Religion (For statistical purpose only)****Item-5-Nationality****Item-6-Community**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code, in all the above items. Candidates belonging to MBC category should use the same code as OBC / BC (for statistical purpose only).

**Item-7-Mother Tongue**

Use the language codes as given below. Enter the correct code in the space provided and shade the numerals below to correspond with the code entered.

Assamese	-01	Kashmiri	-07	Sindhi	-13
Bengali	-02	Malayalam	-08	Tamil	-14
English	-03	Marathi	-09	Telugu	-15
Gujarati	-04	Marwari	-10	Urdu	-16
Hindi	-05	Oriya	-11	Others	-17
Kannada	-06	Punjabi	-12		

**Item-8-Native State**

Refer to the codes for various States given in **APPENDIX-I** of the Information Brochure and enter the appropriate code in the box provided. Shade the numerals below to correspond with the code entered. Please mention particular state, candidates belongs to.

**Item-9-Hostel Accommodation**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code.

**Item-10-Blood Group**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code.

**Item-11-Complete Postal Address**

Write the complete postal address to which any communication is to be sent. The address must include your name, C/O name and all other details including the correct PINCODE, Phone No. with the correct STD code and Mobile number. Please note that this block will be machine scanned and therefore, it should be **written very clearly and in CAPITAL LETTERS in black ballpoint pen** only. In case you make any mistake, cover the entire box with an exact sized white paper slip and write your address on it. **Your address must not overflow this box.** The use of address of any coaching centre / Institution is strictly prohibited. If anybody uses the address of any

coaching centre / Institution in his / her application form, it will be rejected.

**Item-12-Name of the Parent / Guardian**

Write the name of one parent or guardian in capital letters. Write only a single letter in a box. Do not leave any blank box between the letters in a name. **One box should be left blank between consecutive words of the name.** If the name has several initials, leave one blank after each of them.

**Item-13-Relationship of the person at item 12 with the Candidate**

Indicate the relationship of the person whose name you have entered in item 12, to you, by putting in the correct code in the box provided and then shading the circle against the same.

**Item-14-Parent's / Guardian's Occupation**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code.

**Item-15-Medium of Instruction**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code.

**Item-16-Mode of Study**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code.

**Item-17-XII Board**

Refer to the codes for various School Education Boards given in **APPENDIX-II** of the Information Brochure and write the appropriate code in the box provided. Shade the corresponding numeral under each digit of the code.

**Candidates who have studied in Regular, Full time and Formal Education are alone eligible to apply.**

**Item-18-Choice of campus**

Write the appropriate code in the box provided and then shade the appropriate circle to correspond with the code.

**Item-19-Pincode**

Write the PINCODE number in the space provided. Shade the corresponding numeral under each digit.

**Item-20-Mobile Number**

Write your mobile number in the space provided and shade the corresponding numeral under each digit.

**Item-21-Test City**

Refer to the codes for Test Cities in **APPENDIX-III** of the Information Brochure and write the appropriate code in the space provided. Shade the corresponding numeral under each digit of the code.

**Item-22-Valid e-mail ID**

Give your correct email id. It is mandatory that you should produce your correct email id (in capital letters), as all the future correspondence will be communicated through email.



Side - 2

12. NAME OF THE PARENT / GUARDIAN  
 R A J A N A R E S H P E R I

13. RELATIONSHIP OF PERSON AT S.NO.12 WITH THE CANDIDATE  
 1. FATHER  2. MOTHER  3. GUARDIAN

14. PARENT'S / GUARDIAN'S OCCUPATION  
 1. AGRICULTURE SERVICES  2. BUSINESS  3. DEFENCE SERVICE  4. ENGINEERING SERVICES  5. PUBLIC/GOVT SERVICE  6. LAW PRACTICE   
 7. MEDICAL SERVICES  8. PRIVATE SERVICE  9. SELF EMPLOYED  10. TEACHING/ RESEARCH  11. OTHERS

15. MEDIUM OF INSTRUCTION 1. ENGLISH <input checked="" type="radio"/> 2. OTHERS <input type="radio"/>	16. MODE OF STUDY 1. REGULAR (FULL TIME) <input checked="" type="radio"/> 2. OTHERS <input type="radio"/>	17. XII BOARD 1. VELLORE <input checked="" type="radio"/> 2. CHENNAI <input type="radio"/>	18. CHOICE OF CAMPUS 1. VELLORE <input checked="" type="radio"/> 2. CHENNAI <input type="radio"/>	19. PINCODE (As mentioned in S.No.11) 4 9 2 0 0 7	20. MOBILE NO. (As mentioned in S. No. 11) 0 9 0 9 2 6 3 3 3 0 5	21. TEST CITY 1 1 0
---	---	--	---	--	---	------------------------

22. Enter valid Email Id : N A R A S I M H A S U R Y A 9 5 @ G M A I L . C O M

23. WHERE DID YOU SEE OUR ADMISSION ADVERTISEMENT ? (PLEASE SPECIFY NAME OF THE NEWS PAPER / WEBSITE etc.,)  
 T I M E S O F I N D I A

24. DETAILS OF THE QUALIFYING EXAM PASSED / APPEARING FOR :  
 (Candidates must furnish this information, otherwise application will be rejected)

Qualifying Exam Passed / Appearing : 12<sup>th</sup> Reg. No. /Roll No. : 1 3 0 2 2 1 8 4 7 8  
 Name of the School : S R I C H A I T A N Y A  
 Area : V I S H A K A P A T N A M E A S T P O I N T  
 City : V I S H A K A P A T N A M  
 District : V I S H A K A P A T N A M  
 State : A N D R A P R A D E S H Pin Code : 5 3 1 1 7 3  
 Month & Year of Passing/ Appearing : M A Y 2 0 1 3 (eg., APR-2014)

25. DECLARATION

I solemnly and sincerely affirm that I am an Indian National and that all particulars furnished by me in this application form are true and correct. I have not concealed any information. However, in the event of any information being found to be incorrect, fraudulent or untrue, either before or after the examination or after my admission to the programme, I understand that I am liable to face criminal prosecution and the management can claim all authority to cancel my candidature / selection or admission as the case may be and I would have to forego my seat and the fees.

I agree to abide by the rules and regulations governing the examination as well as the rules pertaining to the refund of tuition and hostel fees contained in the brochure.

I further undertake to submit all the required certificates as per the rule, either at the time of counselling or during the admission process, failing which I understand that I would have to forego my seat and the fees.

I have read the brochure and understood the contents in general and the method of Equipercentile Equating in particular. I accept this method to be adopted for Merit List preparation by VIT.

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

Signature of the Parent / Guardian: *T. Girish*  
 Signature of the Applicant: *Surya*



CHECK LIST

1. Have you entered the correct Date of Birth in sl.no.2 ? <input checked="" type="checkbox"/>	2. Have you given your valid Email Id in sl.no.22 ? <input checked="" type="checkbox"/>	3. Have you affixed your photo in sl.no.25 ? <input checked="" type="checkbox"/>	4. Have you signed in sl.no.25 ? <input checked="" type="checkbox"/>
--	---	--	--

**Item-23-Where did you see our Admission Advertisement**

Please specify the Name of the Newspaper / Website (or) any other source where you have seen the Admission Advertisement (write in CAPITAL LETTERS only)

**Item-24-Details of the Qualifying Exam passed / appearing for**

Write the relevant details as Registration number/ Roll number / Complete school address with pincode in each box clearly in black ball-point pen only.

**In case you have not yet been allotted your Registration No./ Roll No., please leave it blank.**

**Item-25-Declaration**

The candidate must sign the declaration. The place and date should also be written. Applications without signatures will be treated as incomplete and rejected.

**The Declaration by the candidate must be Countersigned by the Parent / Guardian.**

Affix one recent good quality coloured photograph in the space ear-marked for this in the Application Form. Paste a good quality colour photograph with light colour background taken not more than two months earlier. Your photograph should be plain and professional and specifying clearly name and the date of the photograph taken. Avoid photograph with a cap or goggles. Spectacles if being used regularly are allowed. Polaroid photos will not be accepted. The photograph should be firmly affixed to the application form with gum or fevicol. Before affixing write your Application No. and Name at the back side of your photograph. It should not be pinned or stapled.

Candidates are advised to retain the negative of the same photograph for the future use at the time of Entrance Examination/ Counselling / Admission. **Do not sign on the photograph. Do not have it attested.**

It is expected that the candidate will have the same appearance at the time of the examination and counselling as in the photograph affixed in the application form. In case his/her appearance changes, he/she would be required to bring two new photographs at the time of the examination / counselling.

**NOTE: Photograph should not be larger than the space provided in the box for pasting it.**

Put your usual signature using a **black ball-point pen**, within the box provided. Your signature must not overflow or touch the border of the box. Your signature establishes your identity.

**Check List**

Read the instructions from 1 to 4 and shade yes.

**20. Check List****20.1. Documents to be Submitted at the time of Counselling:**

1. VITEEE-2014 e-Admit Card
2. Class X Board Certificate as a proof of date of birth
3. Marks Sheet of Qualifying Examination (if available)
4. Transfer Certificate / School Leaving Certificate
5. Migration Certificate (if issued by the Board)
6. Community Certificate ( For SC/ST only )
7. Nativity Certificate (For candidates hailing from Jammu and Kashmir and the North Eastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura).
8. DEMAND DRAFT for ₹ 30,000 /- drawn in favour of 'VIT University', payable at Vellore.
9. If you are seeking hostel admission bring DD for ₹ 20,000/- drawn in favour of 'VIT UNIVERSITY' payable at Vellore.

**20.2. Documents to be Submitted at the time of Admission:**

The following documents in original are required to be submitted at the time of admission:

- Qualifying examination mark statements of all attempts.
- Transfer Certificate / School Leaving Certificate
- Migration Certificate (if issued by the Board)
- Conduct Certificate
- Community Certificate ( For SC/ST only )
- Nativity Certificate (For candidates hailing from Jammu and Kashmir and the North Eastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura).
- Provisional Admission Letter. (Photo copy)
- Recent Passport size colour photos – 4 nos.
- Affidavit has to be given by the Student and Parents separately as per Annexure - I & II
- 2 sets of photocopies of all original documents.

If you have any suggestions to improve our Information Brochure or Application Forms please e-mail to [ugadmission@vit.ac.in](mailto:ugadmission@vit.ac.in) - Thanks



## APPENDIX - I

Codes of The State / Union Territory

State	Code
Andhra Pradesh	10
Arunachal Pradesh	11
Assam	12
Bihar	13
Chhattisgarh	14
Delhi	15
Goa	16
Gujarat	17
Haryana	18
Himachal Pradesh	19
Jammu and Kashmir	20
Jharkhand	21
Karnataka	22
Kerala	23
Madhya Pradesh	24
Maharashtra	25
Manipur	26
Meghalaya	27

State	Code
Mizoram	28
Nagaland	29
Orissa	30
Punjab	31
Rajasthan	32
Sikkim	33
Tamil Nadu	34
Tripura	35
Uttar Pradesh	36
Uttarakhand	37
West Bengal	38
Andaman and Nicobar Islands (UT)	39
Chandigarh (UT)	40
Dadra and Nagar Haveli (UT)	41
Daman and Diu (UT)	42
Lakshadweep (UT)	43
Puducherry (UT)	44

## APPENDIX – II

Codes of The School Education Boards of Class XII

State	Code
Andhra Pradesh Board of Intermediate Education	01
Assam Higher Secondary Education Council	02
Bihar Intermediate Education Council	03
Central Board of Secondary Education	04
Chhattisgarh Madhyamik Shiksha Mandal	05
Council for the Indian School Certificate Examinations	06
Goa Board of Secondary and Higher Secondary Education	07
Gujarat Secondary Education Board	08
Haryana Board of Education	09
H P Board of School Education	10
J & K State Board of School Education	11
Jharkhand Academy Council	12
Karnataka Board of Pre-University Education	13
Kerala Board of Public Examinations	14
Madhya Pradesh Board of Secondary Education	15

State	Code
Maharashtra State Board of Secondary and Higher Secondary Education	16
Manipur Council of Higher Secondary Education	17
Meghalaya Board of Secondary Education	18
Mizoram Board of School Education	19
Nagaland Board of School Education	20
Orissa Council of Higher Secondary Education	21
Punjab School Education Board	22
Rajasthan Board of Secondary Education	23
Tamil Nadu Board of Higher Secondary Education	24
Tripura Board of Secondary Education	25
U.P. Board of High School & Intermediate Education	26
Uttaranchal Shiksha Evam Pariksha Parishad	27
West Bengal Council of Higher Secondary Education	28
Others [ IB, Cambridge..... ]	29

\* Candidates who have studied in regular, full time and formal education are alone eligible to apply.



## APPENDIX – III

Codes of the Test Cities – VITEEE – 2014

State	Test City	Code	State	Test City	Code	State	Test City	Code
Andaman and Nicobar Islands	Port Blair	101	Jharkhand	Bokaro	138	Rajasthan	Ajmer	173
	Ananthapur	102		Dhanbad	139		Bikaner	174
Andhra Pradesh	Guntur	103	Jamshedpur	140	Jaipur		175	
	Hyderabad	104	Ranchi	141	Jodhpur		176	
	Kurnool	105	Bangalore	142	Kota		177	
	Nellore	106	Hubli	143	Udaipur		178	
	Rajahmundry	107	Mangalore	144	Gangtok		179	
	Tirupati	108	Kochi	145	Chennai		180	
	Vijayawada	109	Kozhikode	146	Coimbatore		181	
	Vishakapatnam	110	Thiruvananthapuram	147	Kumbakonam		182	
	Warangal	111	Thrissur	148	Madurai		183	
Arunachal Pradesh	Ita Nagar	112	Madhya Pradesh	Bhopal	149	Salem	184	
Assam	Dibrugarh	113		Gwalior	150	Tiruchirappalli	185	
	Guwahati	114		Indore	151	Tirunelveli	186	
	Silchar	115		Jabalpur	152	Vellore	187	
Bihar	Bhagalpur	116		Ujjain	153	Agartala	188	
	Gaya	117	Amravati	154	Agra	189		
	Muzaffarpur	118	Aurangabad	155	Aligarh	190		
	Patna	119	Latur	156	Allahabad	191		
Chandigarh	Chandigarh	120	Mumbai	157	Bareilly	192		
Chattisgarh	Bhilai	121	Nagpur	158	Gorakhpur	193		
	Bilaspur	122	Nashik	159	Jhansi	194		
	Raipur	123	Pune	160	Kanpur	195		
Delhi	Delhi	124	Thane	161	Lucknow	196		
	Goa	125	Imphal	162	Mathura	197		
Gujarat	Ahmedabad	126	Shillong	163	Meerut	198		
	Rajkot	127	Aizwal	164	Moradabad	199		
	Surat	128	Berhampur	165	Noida	200		
	Vadodara	129	Bhubaneswar	166	Rae Bareli	201		
Haryana	Faridabad	130	Rourkela	167	Saharanpur	202		
	Gurgaon	131	Puducherry	168	Varanasi	203		
	Hissar	132	Amritsar	169	Dehradun	204		
Himachal Pradesh	Kurukshehra	133	Bathinda	170	Pant Nagar	205		
	Dharamsala	134	Jalandhar City	171	Roorkee	206		
	Shimla	135	Ludhiana	172	Asansol	207		
Jammu & Kashmir	Jammu	136	Dubai	211	Durgapur	208		
	Srinagar	137	Kuwait	212	Kolkata	209		
					Siliguri	210		

## APPENDIX –IV

## VITEEE – 2014 Syllabus

**PART – 1 - PHYSICS****Electrostatics**

Frictional electricity, charges and their conservation; Coulomb's law-forces between two point electric charges - Forces between multiple electric charges-superposition principle.

Electric field – electric field due to a point charge, electric field lines; electric dipole, electric field intensity due to a dipole - behaviour of a dipole in a uniform electric field-application of electric dipole in microwave oven.

Electric potential - potential difference-electric potential due to a point charge and dipole-equipotential surfaces – electrical potential energy of a system of two point charges.

Electric flux-Gauss's theorem and its applications to find field due to (i) infinitely long straight wire (ii) uniformly charged infinite plane sheet (iii) two parallel sheets and (iv) uniformly charged thin spherical shell (inside and outside)

Electrostatic induction-capacitor and capacitance – dielectric and electric polarisation – parallel plate capacitor with and without dielectric medium – applications of capacitor – energy stored in a capacitor - Capacitors in series and in parallel – action of points – Lightning arrester – Van de Graaff generator.

**Current Electricity**

Electric Current – flow of charges in a metallic conductor – drift velocity and mobility and their relation with electric current.

Ohm's law, electrical resistance - V-I characteristics – electrical resistivity and conductivity-classification of materials in terms of conductivity – Superconductivity (elementary ideas) - Carbon resistors – colour code for carbon resistors - combination of resistors – series and parallel – temperature dependence of resistance – internal resistance of a cell – potential difference and emf of a cell - combinations of cells in series and in parallel.

Kirchoff's law – illustration by simple circuits – Wheatstone's Bridge and its application for temperature coefficient of resistance measurement - Metrebridge - special case of Wheatstone bridge - Potentiometer principle - comparing the emf of two cells.

**Effects of Electric Current**

Magnetic effect of electric current – Concept of magnetic field - Oersted's experiment – Biot-Savart law-Magnetic field due to an infinitely long current carrying straight wire and circular

coil – Tangent galvanometer – construction and working – Bar magnet as an equivalent solenoid – magnetic field lines.

Ampere's circuital law and its application.

Force on a moving charge in uniform magnetic field and electric field – cyclotron – Force on current carrying conductor in a uniform magnetic field – Forces between two parallel current carrying conductors - definition of ampere.

Torque experienced by a current loop in a uniform magnetic field - moving coil galvanometer – conversion to ammeter and voltmeter – current loop as a magnetic dipole and its magnetic dipole moment - Magnetic dipole moment of a revolving electron.

**Electromagnetic Induction and Alternating Current**

Electromagnetic induction - Faraday's law - induced emf and current - Lenz's law.

Self induction - Mutual induction - self inductance of a long solenoid - mutual inductance of two long solenoids.

Methods of inducing emf - (i) by changing magnetic induction (ii) by changing area enclosed by the coil and (iii) by changing the orientation of the coil (quantitative treatment).

AC generator - commercial generator. (Single phase, three phase).

Eddy current - applications - transformer - long distance transmission.

Alternating current - measurement of AC-AC circuit with resistance - AC circuit with inductor - AC circuit with capacitor - LCR series circuit - Resonance and Q - factor - power in AC circuits.

**Electromagnetic Waves and Wave Optics**

Electromagnetic waves and their characteristics - Electromagnetic spectrum-radio, microwaves, infra-red, visible, ultra-violet, X rays, gamma rays.

Wavefront and Huygens's principle - Reflection, total internal reflection and refraction of plane wave at a plane surface using wavefronts.

Interference - Young's double slit experiment and expression for fringe width - coherent source - interference of light - Formation of colours in thin films - analytical treatment - Newton's rings.

Diffraction - differences between interference and diffraction of light- diffraction grating.

Polarisation of light waves - polarisation by reflection - Brewster's law - double refraction - nicol prism - uses of plane polarised light and Polaroids - rotatory polarisation - polarimeter.

### Atomic Physics

Atomic structure - discovery of the electron - specific charge (Thomson's method) and charge of the electron (Millikan's oil drop method) - alpha scattering - Rutherford's atom model.

Bohr's model - energy quantization - energy and wave number expressions - Hydrogen spectrum - energy level diagrams - sodium and mercury spectra - excitation and ionization potentials - Sommerfeld's atom model.

Masers and Lasers - spontaneous and stimulated emissions - normal population and population inversion - Ruby laser - He-Ne laser - properties and applications of laser light - holography.

### Dual Nature of Radiation and Matter

Photoelectric effect - Light waves and photons - Einstein's photoelectric equation - laws of photoelectric emission - particle nature of energy - experimental verification of Einstein's photoelectric equation - work function - photo cells and their applications.

Matter waves - wave mechanical concept of the atom - wave nature of particles - de Broglie relation - de Broglie wavelength of an electron - electron microscope.

### Nuclear Physics

Nuclear properties - nuclear radii, masses, binding energy, density, charge - isotopes, isobars and isotones - nuclear mass defect - binding energy - stability of nuclei - Bainbridge mass spectrometer.

Nature of nuclear forces - Neutron - discovery - properties - artificial transmutation - particle accelerator.

Radioactivity - alpha, beta and gamma radiations and their properties-  $\alpha$  -decay,  $\beta$  -decay and  $\gamma$ -decay - Radioactive decay law - half life - mean life - artificial radioactivity - radio isotopes - effects and uses - Geiger - Muller counter.

Radio carbon dating - biological radiation hazards.

Nuclear fission - chain reaction - atom bomb - nuclear reactor - nuclear fusion - Hydrogen bomb - cosmic rays - elementary particles.

### Semiconductor Devices and their Applications

Semiconductor theory - energy band in solids - difference between metals, insulators and semiconductors based on band theory - semiconductor doping - Intrinsic and Extrinsic semiconductors.

Formation of P-N Junction - Barrier potential and depletion layer-P-N Junction diode - Forward and reverse bias characteristics - diode as a rectifier - Zener diode-Zener diode as a voltage regulator - LED - seven segment display - LCD.

Junction transistors - characteristics - transistor as a switch - transistor as an amplifier - transistor biasing - RC, LC coupled and transformer coupling in amplifiers - feed back in amplifiers - positive and negative feedback - advantages of negative feedback in amplifiers - oscillator - condition for oscillations - LC circuit - Colpitt oscillator.

Logic gates - NOT, OR, AND, EXOR using discrete components - NAND and NOR gates as universal gates -Laws and theorems of Boolean algebra

## PART – II - 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 spectrum, absorption spectrum, line spectra and band spectra; Hydrogen spectrum - Lyman, Balmer, Paschen, Brackett and Pfund series; deBroglie's theory; Heisenberg's uncertainty principle - wave nature of electron - Schrodinger wave equation (No derivation). Eigen values and eigen functions. Hybridization of atomic orbitals involving s,p,d orbitals.

### p,d and f – Block Elements:

p block elements - Phosphorous compounds;  $\text{PCl}_3$ ,  $\text{PCl}_5$  - Oxides. Hydrogen halides, Inter halogen compounds. Xenon fluoride compounds. General Characteristics of 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, properties of  $\text{CuSO}_4$ ,  $\text{AgNO}_3$  and  $\text{K}_2\text{Cr}_2\text{O}_7$ .

Lanthanides - Introduction, electronic configuration, general characteristics, oxidation state - lanthanide contraction, uses, brief comparison of Lanthanides and Actinides.

### Coordination Chemistry and Solid State Chemistry

Introduction - Terminology in coordination chemistry - 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. Uses of

coordination compounds. Bioinorganic compounds (Haemoglobin and chlorophyll). Lattice - unit cell, systems, types of crystals, packing in solids; Ionic crystals - Imperfections in solids - point defects. X-Ray diffraction - Electrical Property, Amorphous solids (elementary ideas only).

### Thermodynamics, Chemical Equilibrium and Chemical Kinetics

I and II law of thermodynamics - spontaneous and non spontaneous processes, entropy, Gibb's free energy - Free energy change and chemical equilibrium - significance of entropy. Law of mass action - Le Chatlier's principle, applications of chemical equilibrium. 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.

### Electrochemistry

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 - Kohlraush's law - Ionic product of water,  $p^H$  and  $p^{OH}$  - buffer solutions - use of  $p^H$  values. Cells - Electrodes and electrode potentials - construction of cell and EMF values, Fuel cells, Corrosion and its prevention.

### 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.

### Alcohols and Ethers

Nomenclature of alcohols - Classification of alcohols - distinction between  $1^{\circ}$ ,  $2^{\circ}$  and  $3^{\circ}$  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.

### Carbonyl Compounds

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; Clemmenson reduction, Wolff - Kishner reduction, Cannizaro reaction, Claisen Schmidt reaction, Benzoin Condensation, aldol Condensation. Preparation and applications of Grignard reagents.

### Carboxylic Acids and their derivatives

Nomenclature - Preparation of aliphatic monobarboxylic acids - formic acid - Properties - Uses. Monohydroxy mono carboxylic acids; Lactic acid - Synthesis of lactic acid. Aliphatic dicarboxylic acids; Preparation of oxalic and succinic acid. Aromatic acids; Benzoic and Salicylic acid - 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  $1^{\circ}$ ,  $2^{\circ}$  and  $3^{\circ}$  amines. Aromatic amines - Synthesis of benzylamine - Properties, Aniline - Preparation - Properties - Uses. Distinction between aliphatic and aromatic amine. Aliphatic nitriles - Preparation - properties - Uses. Diazonium salts - Preparation of benzene diazoniumchloride - Properties.

### Biomolecules

**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** - classification with examples, Peptides-properties of peptide bond,

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

## PART – III - MATHEMATICS

### 1. Applications of Matrices and Determinants

Adjoint, inverse - properties, computation of inverses, solution of system of linear equations by matrix inversion method.

Rank of a matrix - elementary transformation on a matrix, consistency of a system of linear equations, Cramer's rule, non-homogeneous equations, homogeneous linear system and rank method.

### 2. Complex Numbers

Complex number system - conjugate, properties, ordered pair representation.

Modulus – properties, geometrical representation, polar form, principal value, conjugate, sum, difference, product, quotient, vector interpretation, solutions of polynomial equations, De Moivre's theorem and its applications.

Roots of a complex number -  $n^{\text{th}}$  roots, cube roots, fourth roots.

### 3. Analytical Geometry of two dimensions

Definition of a conic – general equation of a conic, classification with respect to the general equation of a conic, classification of conics with respect to 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 normals – cartesian form and parametric form- equation of chord of contact of tangents from a point  $(x_1, y_1)$  to all the above said curves.

Asymptotes, Rectangular hyperbola – Standard equation of a rectangular hyperbola.

### 4. Vector Algebra

Scalar Product – angle between two vectors, properties of scalar product, applications of dot products. vector product, right handed and left handed systems, properties of vector product, applications of cross product.

Product of three vectors – Scalar triple product, properties of scalar triple product, vector triple product, vector product of four vectors, scalar product of four vectors.

### 5. Analytical Geometry of Three Dimensions

Direction cosines – direction ratios - equation of a straight line passing through a given point and parallel to a given line, passing through two given points, angle between two lines.

Planes – equation of a plane, passing through a given point and perpendicular to a line, given the distance from the origin and unit normal, passing through a given point and parallel to two given lines, passing through two given points and parallel to a given line, passing through three given non-collinear points, passing through the line of intersection of two given planes, the distance between a point and a plane, the plane which contains two given lines (co-planar lines), angle between a line and a plane.

Skew lines - shortest distance between two lines, condition for two lines to intersect, point of intersection, collinearity of three points.

Sphere – equation of the sphere whose centre and radius are given, equation of a sphere when the extremities of the diameter are given.

### 6. Differential Calculus

Derivative as a rate measurer - rate of change, velocity, acceleration, related rates, derivative as a measure of slope, tangent, normal and angle between curves, maxima and minima.

Mean value theorem - Rolle's Theorem, Lagrange Mean Value Theorem, Taylor's and Maclaurin's series, L' Hospital's Rule, stationary points, increasing, decreasing, maxima, minima, concavity, convexity and points of inflexion.

Errors and approximations – absolute, relative, percentage errors - curve tracing, partial derivatives, Euler's theorem.

### 7. Integral Calculus and its Applications

Simple definite integrals – fundamental theorems of calculus, properties of definite integrals.

Reduction formulae – reduction formulae for  $\int \sin^n x dx$  and  $\int \cos^n x dx$ , Bernoulli's formula.

Area of bounded regions, length of the curve.

### 8. Differential Equations

Differential equations - formation of differential equations, order and degree, solving differential equations (1<sup>st</sup> order), variables separable, homogeneous and linear equations.

Second order linear differential equations - second order linear differential equations with constant co-efficients, finding the particular integral if  $f(x) = e^{mx}$ ,  $\sin mx$ ,  $\cos mx$ ,  $x$ ,  $x^2$ .

### 9. Probability Distributions

Probability – Axioms – Addition law - Conditional probability – Multiplicative law - Baye's Theorem - Random variable - probability density function, distribution function, mathematical expectation, variance

Theoretical distributions - discrete distributions, Binomial, Poisson distributions- Continuous distributions, Normal distribution.

### 10. Discrete Mathematics

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

Groups-binary operations, semigroups, monoids, groups, order of a group, order of an element, properties of groups.

**PART – IV - BIOLOGY****Taxonomy**

Linnaean system of classification and Binomial nomenclature; history and types of classification; status of bacteria and viruses; classification of angiosperms up to sub-class level (Bentham and Hooker' systems); salient features of non-chordates up to phyla levels and chordates up to class levels.

**Evolution**

Modern concepts of organic evolution, evidences of organic evolution (Fossil records and biochemical evidences).

Darwinism and neo – Darwinism, Lamarckism, Neo-Lamarckism, sources of variation, mutation, recombination, genetic drift, migration, natural selection. Origin and concepts of species: speciation and isolation (geographical pre-mating and post-mating or post zygotic), adaptive radiations; human evolution.

**Cell and Molecular Biology**

Discovery of cell, cell as a contained unit, pro and eukaryotic cells and its ultra structure. Cell division: amitosis, mitosis and meiosis. The cell: cell wall, cell membrane and cell organelles (Plastids, mitochondria, endoplasmic reticulum, Golgi bodies, ribosomes, lysosomes, vacuoles and centrioles)

DNA and RNA, DNA as genetic material, RNA as genetic material, replication, transcription, genetic code, translation splicing, gene expression and regulation, protein synthesis, DNA repair.

**Reproduction**

Reproduction in Plants: asexual and sexual reproduction, vegetative propagation, sexual reproduction in flowering plants, structure of flowers, pollination, fertilization, development of seeds and fruits, apomixes and poly-embryony

Human reproduction and Reproductive health: reproductive system in male and female, menstrual cycles, production of gametes, fertilization, implantation, embryo development, pregnancy, parturition and lactation, Assisted reproductive technologies.

**Genetics**

Chromosomes: structure and types, linkage and crossing over, recombination of chromosomes, mutation, chromosomal aberration, Mendelian inheritance, chromosomal theory of inheritance, deviation from Mendelian ratio (gene interaction, incomplete dominance, co-dominance, complimentary gene, multiple allelism), sex determination in humans, chromosomal disorders in humans.

**Microbiology and Immunology**

Introduction to microbial diversity, history of medical microbiology, discovery of antibiotics, pasteurization, microscopes. Fungi, bacteria, virus, protozoa, algae –

beneficial and harmful. Parasites and pathogens. Structure of microbes and diseases caused by them. Basic concepts of immunology: Innate and humoral immunity, lymphoid organs, lymph nodes and spleen, antibodies, vaccines, transplantation immunology, immune system disorders.

**Biochemistry**

Structure and function of carbohydrates, lipids, proteins. Disaccharide, starch, glycogen, fats, cholesterol, amino acids, peptides. Primary, Secondary and Tertiary structure of proteins. Enzymes, structure and mechanism of enzyme catalysis, specificity of enzymes, co factors and co-enzymes.

**Physiology: Plant and Human**

Plant Physiology: Movement of water, food, nutrients, gases and minerals. Respiration, photosynthesis (light and dark reactions), Factors affecting photosynthesis, electron transport chain (ETC), glycolysis, Krebs' cycle, pentose phosphate pathway, hormones and growth regulators, Photo-periodism and vernalization.

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 and its functions.

**Biotechnology and its applications**

Recombinant DNA technology, applications in health, agriculture and industries; genetically modified organisms; bio-safety issues, insulin and Bt cotton, transgenic plants and microbes, plant tissue culture and its application; plant growth regulators; Microbes in food processing; industrial production of microbial products, Sewage treatment, waste management and energy generation.

**Biodiversity, ecology and environment**

Ecosystems: components, types and energy flow in ecosystem; species, population and community, ecological adaptations, centers of diversity and conservation of bio-diversity, Red data book, botanical gardens, national parks, sanctuaries and museums, environmental issues, human population explosion, green house effects, ozone layer depletion, Environmental issues and Pollution control.

**Applied biology and human welfare**

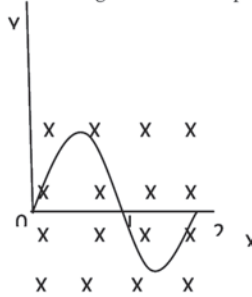
Bio-pesticides, genetically modified foods, bio-war, bio-piracy, bio-pattern, sustainable agriculture and medicinal plants, economic important plants (food crops, oil seeds, fiber yielding, sugar crops and timber yielding), bio-pharming, pesticides, organic agriculture. Population and birth control, contraception and MTP, sexually transmitted diseases, infertility, cancer and AIDS. Adolescence and drug/or alcohol abuse.

## APPENDIX – V

### SAMPLE QUESTIONS

#### PHYSICS

- A pendulum bob of mass  $m$  carrying  $q$  is at rest with its string making an angle  $\theta$  with the vertical in a uniform horizontal electric field  $E$ . The tension in the string is  
 A)  $mg/\sin \theta$     B)  $mg$     C)  $qE/\sin \theta$     D)  $qE/\cos \theta$
- The masses of three wires of copper are in the ratio 1:3:5 and their lengths are in the ratio 5:3:1. The ratio of their electrical resistance is  
 A) 1:3:5    B) 5:3:1    C) 1:15:125    D) 125:15:1
- A wire carrying current  $I$  is placed in a uniform magnetic field  $B$  in the form of a curve  $y = a \sin(\pi x/L), 0 \leq x \leq 2L$  ( $a$  is a positive constant with the dimensions of length) as shown. Magnitude of force upon the wire is

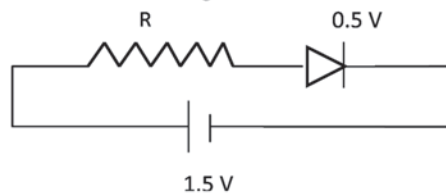


X - denotes  $B$  – into

- A)  $2\pi ILB$     B)  $\pi L2BI/4$     C)  $2IBL$     D) Zero
- The current in a circular coil of single turn produces a magnetic induction  $B_0$  at the centre. The coil is unwound and then rewound into a circular coil of two turns. Now the magnetic induction at the centre for the same current will be  
 A)  $B_0$     B)  $4B_0$     C)  $2B_0$     D)  $B_0/2$
- In a young's double slit experiment, the fringes are displaced by a distance ' $y$ ' when a glass plate of refractive index 1.5 is introduced in the path of one of the beams. When this plate is replaced by another plate of same thickness, the shift of fringes  $\frac{3}{2}y$ . The refractive index of the second plate is  
 A) 1.75    B) 1.5    C) 1.25    D) 1.00
- The ratio of the ionization energy of Bohr's hydrogen atom and hydrogen like Lithium atom is  
 A) 1:1    B) 1:3    C) 1:9    D) 9:1
- A ray of wavelength 663 nm is incident on a totally reflecting surface. The momentum delivered by the ray is  
 A)  $6.63 \times 10^{-27}$  kgm/s    B)  $2 \times 10^{-27}$  kgm/s    C)  $10^{-27}$  kgm/s    D)  $13.26 \times 10^{-27}$  kgm/s
- The half life of radium is 1600 years. The fraction of a sample of radium that would decay in 6400 years is  
 A) 1/16    B) 1/4    C) 7/8    D) 15/16
- The following truth table belongs to which one of the following four gate

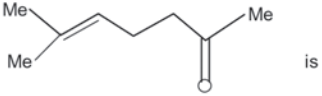
A	B	Y
1	1	0
1	0	0
0	1	0
0	0	1

- A) OR    B) NAND    C) XOR    D) NOR
- The diode used in the circuit shown in the figure has a constant voltage drop of 0.5 V at all currents and a maximum power rating of 100 mW. What should be the value of the resistor  $R$  connected in series with the diode for obtaining maximum current



- A)  $1.5 \Omega$     B)  $5 \Omega$     C)  $6.67 \Omega$     D)  $200 \Omega$

CHEMISTRY

- The number of radial nodes of a 4p hydrogenic orbital is  
A) 0                      B) 1                      C) 2                      D) 3
- The structure of boron nitride is similar to that of  
A) acetylene    B) graphite    C) phosphine    D) sodium chloride
- The structure of  $\text{PCl}_5$  in the vapour state is  
A) square pyramidal    B) planar pentagonal  
C) twisted pentagonal    D) trigonal bipyramidal
- According to valence Bond theory, the hybridisation and magnetism of  $[\text{Fe}(\text{CN})_6]^{3-}$  are, respectively, (Fe atomic Number = 26)  
A)  $d^2sp^3$  paramagnetic    B)  $d^2sp^3$  diamagnetic    C)  $sp^2d^3$  paramagnetic    D)  $sp^2d^3$  diamagnetic
- For a diffusion controlled reaction  
A)  $RT \ll E_a$                       B)  $A \approx e^{-E_a/RT}$   
C) The Arrhenius pre exponential factor (A) is close to zero  
D) The activation energy ( $E_a$ ) is close to zero
- The work done when 6.5g of metallic zinc (at. mass 65) is completely dissolved in dilute sulphuric acid in an open beaker at  $27^\circ\text{C}$  is  
A) 0 J                      B) 125 J                      C) 249 J                      D) 498 J
- Assuming approximate values of one Faraday as  $9.6 \times 10^4 \text{C}$  and Avogadro number as  $6 \times 10^{23}$ , the charge of an electron is  
A)  $5.76 \times 10^{28} \text{C}$                       B)  $6.25 \times 10^{18} \text{C}$                       C)  $1.6 \times 10^{-19} \text{C}$                       D)  $3.2 \times 10^{-18} \text{C}$
- The IUPAC name of the compound  
 is  
 A) 4 - methyl - 3 - hepten - 2 - one                      B) 2 - methyl - 2 - hepten - 6 - one  
 C) 6 - methyl - 5 - hepten - 2 - one                      D) 4 - methyl - 3 - hepten - 2 - one
- Benzamide can be converted to benzylamine using  
A)  $\text{Br}_2/\text{KOH}$                       B)  $\text{PCl}_5$                       C)  $\text{LiAlH}_4$                       D)  $\text{NaBH}_4$
- 1 - methylcyclohexene can be converted to trans - 2 - methylcyclohexanol by  
A) hydroboration                      B) oxymercuration  
C) oxidation with alkaline  $\text{KMnO}_4$                       D) oxidation with  $\text{H}_2\text{CrO}_4$



**MATHEMATICS**

1. If  $A$  be a  $3 \times 3$  singular matrix of rank 2 and rank  $(A|B) = 3$ , (where  $(A|B)$  is the augmented matrix), then the system of linear equations  $Ax = B$  has
  - A) Unique solution
  - B) Infinitely many solutions
  - C) No solution
  - D) At least one but finitely many solutions
2. If real part of  $\frac{z+1}{z+i}$  is 0, where  $i = \sqrt{-1}$ , then  $z$  lies on a
  - A) Circle
  - B) Straight line
  - C) Ellipse
  - D) Parabola
3. If the chords of the hyperbola  $x^2 - y^2 = 16$  touches the parabola  $y^2 = 16x$ , then the locus of the middle points of these chords is the curve
  - A)  $y^2(x+4) = x^3$
  - B)  $y^2(x-4) = x^3$
  - C)  $y^2(x-8) = 3x^3$
  - D)  $y^2(x-8) = 2x^3$
4. If  $(\vec{a}, \vec{b}, \vec{c})$  are three vectors such that if  $\vec{a} \times \vec{b} = \vec{c}$  and  $\vec{b} \times \vec{c} = \vec{a}$ , then
  - A) If  $\vec{a}, \vec{b}$  and  $\vec{c}$  are pair-wise perpendicular
  - B)  $|\vec{a}| = |\vec{b}| = |\vec{c}| = 1$
  - C)  $|\vec{a}| = |\vec{b}| = |\vec{c}| \neq 1$
  - D)  $|\vec{a}| \neq |\vec{b}| \neq |\vec{c}|$
5. The three planes  $4y+6z=5$ ,  $2x+3y+5z=5$  and  $6x+5y+9z=10$ 
  - A) Meet in a point
  - B) Have a line in common
  - C) Form a triangular prism
  - D) Do not meet at any point
6. Let  $f$  be a function satisfying  $f(x+y) = f(x) + f(y)$  and  $f(x) = x^2 g(x)$  for all real  $x$  and  $y$ ,  $g(x)$  is a continuous function. Then  $f'(x)$  equals to
  - A)  $g'(x)$
  - B)  $g(0)$
  - C)  $g(0) + f(0)$
  - D) 0
7. If  $[x]$  denotes the greatest integer  $\leq x$ , then the value of the integral  $\int_4^{10} \frac{[x^2] dx}{[x^2 - 28x + 196] + [x]^2}$  is
  - A) 0
  - B) 1
  - C) 3
  - D) 4
8. Solution of the differential equation  $\frac{dx}{dy} = \frac{x+y+7}{2x+xy+3}$  is
  - A)  $6(x+y) + 11 \ln(3x+3y+10) = 9x+c$
  - B)  $6(x+y) - 11 \ln(3x+3y+10) = 9x+c$
  - C)  $6(x+y) - 11 \ln(x+y+\frac{10}{3}) = 9x+c$
  - D)  $6(x+y) - 11 \ln(x+y+10) = 9x+c$
9. Two dice are rolled one after another. The probability that the number on the first is less than or equal to the number on the second is
  - A)  $\frac{5}{12}$
  - B)  $\frac{7}{12}$
  - C)  $\frac{5}{18}$
  - D)  $\frac{13}{18}$
10. The proposition  $p \wedge (p \vee q)$  is
  - A) a tautology
  - B) a contradiction
  - C) logically equivalent to  $p \wedge q$
  - D) logically equivalent to  $p \vee q$

**BIOLOGY**

- Which of the following is NOT an example of autoimmune disease?
 

A) Rheumatoid arthritis	C) Acquired immunodeficiency syndrome
B) Diabetes Mellitus Type 1	D) Addison's Disease
- Red tide is caused by
 

A) Protozoans	C) Dinoflagellates
B) Corals	D) Bacteria
- Whose classification system is universally accepted, according to which herbarium sheet is arranged and its dimensions are?
 

A) Bentham and Hooker, 11.50 cm-16.50 cm.	C) Bentham and Hooker, 29 cm-41 cm
B) Carl Linnaeus, 11.5 inch – 16.50 inch	D) R.H.Whittaker, 29 cm-41 inch
- In angiosperms, if the number of chromosomes in endosperms is 30, what will be the number of chromosomes in nucleus?
 

A) 15	B) 30	C) 20	D) 40
-------	-------	-------	-------
- Which one of the following pairs as homologous?
 

A) Wing of a bird : Wing of a bat	C) Patagium of Draco : Wing of kiwi
B) Ear pinnae : Wing of a bird	D) Tusk of an elephant : Rhinoceros horn
- Which organism serves as a biofertilizer?
 

A) <i>Streptomyces</i>	C) <i>Spirogyra</i>
B) <i>E. coli</i>	D) <i>Cassia</i>
- PCR and RFLP are the techniques used for
 

A) DNA sequencing	C) Study of enzymes
B) Genetic fingerprinting	D) Genetic transformation
- Which one of the following is not a membrane lipid?
 

A) Glycerophospholipids	C) Neutral lipids
B) Galacto lipids	D) Sphingo lipids
- Bt cotton is toxic for some insects but not for animals, because
 

A) Animals have Bt toxin resistant genes	C) Bt toxin is effective for only flyable organism
B) Insects are small in size so toxicity will be expressed	D) Toxin becomes active in insect by alkaline pH of its gut
- Removal of RNA polymerase III from nucleoplasm will affect the synthesis of
 

A) mRNA	C) tRNA
B) tRNA and mRNA	D) hnRNA

**ANNEXURE 1**  
**AFFIDAVIT BY THE STUDENT**

(This matter has to be typed on a non-judicial stamp paper of ₹ 20/-)

I,..... (full name of student with admission/registration/enrolment number) s/o d/o Mr./Mrs./Ms , ..... having been admitted to (name of the institution), have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the "Regulations") carefully read and fully understood the provisions contained in the said Regulations.

- 2) I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.
- 3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulation and am fully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
- 4) I hereby solemnly aver and undertake that
  - (a) I will not indulge in any behavior or act that may be constituted as ragging under clause 3 of the Regulations.
  - (b) I will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.
- 5) I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against me under any penal law or any law for the time being in force.
- 6) I hereby declare that I have not been expelled or debarred from admission in any institution on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to be cancelled.

Declared this ..... day of ..... month of ..... year.

Signature of deponent

Name:

**VERIFICATION**

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at ..... (place) on this the ..... (day), of ..... (month), ..... (year).

Signature of deponent

Solemnly affirmed and signed in my presence on this the ..... (day) of ..... (month), .....(year) after reading the contents of this affidavit.

**OATH COMMISSIONER / ADVOCATE AND NOTARY PUBLIC**

**ANNEXURE II**  
**AFFIDAVIT BY THE PARENT / GUARDIAN**

(This matter has to be typed on a non-judicial stamp paper of ₹ 20/-)

1. Mr./Mrs./Ms. .... (full name of parent /guardian) father/ mother/ guardian of ....., (full name of student with admission/registration/ enrolment number), have been admitted to (name of the institution), have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the "Regulations"), carefully read and fully understood the provisions contained in the said Regulations.
- 2) I have, in particular, perused clause 3 of the Regulations and am aware asto what constitutes ragging.
- 3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against my ward in case he/she is found guilty of or abetting ragging, actively or passively, or bei ng part of a conspi racy to promote ragging.
- 4) I hereby solemnly aver and undertake that
  - a) My ward will not indulge in any behavior or act that may be constituted as ragging under clause 3 of the Regulations.
  - b) My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted asragging under clause 3 of the Regulations.
- 5) I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.
- 6) I hereby declare that my ward has not been expelled or debarred from admission in any institution on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.

Declared this ..... day of ..... month of ..... year.

Signature of Deponent

Name:

Address:

Telephone / Mobile No:

**VERIFICATION**

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at ..... (place) on this the..... (day), of ..... (month),..... (year).

Signature of deponent

Solemnly affirmed and signed in my presence on this the ..... (day), of ..... (month), ..... (year) after reading the contents of this affidavit.

**OATH COMMISSIONER / ADVOCATE AND NOTARY PUBLIC**

**ANNEXURE III**  
**CERTIFICATE TO PROVE NATIVITY**

(For candidates hailing from Jammu and Kashmir and the North Eastern states of  
Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura)

Certified that Mr. / Ms. .... an  
applicant for admission to B.Tech. Degree programme in the year .....  
son / daughter of Shri. / .....  
Smt ..... residing  
at .....  
in ..... District of ..... State, is a native of  
..... State.

Signature of Tahsildar or Revenue Authority

Name :

Designation :

Place :

Date :

Office Seal :

Office Seal

**THE FORM OF CASTE CERTIFICATE FOR SC / ST**

Certified that Mr. / Ms..... an applicant  
for admission to B.Tech. Degree programme in the year ..... son / daughter of Shri. / Smt  
..... residing at.....  
..... in ..... District of  
..... belongs to the ..... Caste / Tribe,  
which is recognized as a Scheduled Caste / Scheduled Tribe under the Constitution (Scheduled Castes) Order 1950 / The Constitution  
(Scheduled Tribes) Order, 1950, as amended by the Scheduled Castes and Scheduled Tribes Orders Amendment Act, 1976.

Signature of Competent Authority

Name :

Designation :

Place :

Date :

**Office Seal**

**Authorities empowered to issue Scheduled Caste / Scheduled Tribe Certificate**

District Magistrate / Additional District Magistrate / Collector / Deputy Collector / Deputy Commissioner /  
1st Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluk Magistrate / Executive  
Magistrate / Extra Assistant Commissioner.

Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate

Revenue Officer not below the rank of Tahsildar

Sub-Divisional Officer of the area where the candidate and / or his family normally resides

## IMPORTANT DATES

**Last date for Issue & Receipt of Application form** - **Friday, February 28 , 2014**

**VIT Engineering Entrance Examination (VITEEE-2014)** - **April 9 to April 20 , 2014**

**Declaration of Results (Tentative)** - **Monday, April 28 , 2014**

### Commencement of Classes (Tentative) - Vellore Campus

B.Tech. – CSE, IT, Computer Science Engg with spec. in Bioinformatics	Wednesday July 02, 2014.
B.Tech. – ECE, EEE, EIE	Friday July 04, 2014.
B.Tech. – Bio-Medical, Biotech, Civil, Mechanical, Mech(spec. in Energy Engg), Mech(spec.in Chemical Process Engg), Mech (spec. in Automotive Engg), Production & Industrial Engineering	Monday July 07, 2014.

#### **For Admission details contact:**

**Director** - UG Admissions, VIT University  
Vellore - 632 014, Tamil Nadu, India  
Phone : +91-416-2202168, 2202157  
Fax : +91-416 224 5544, 224 0411  
Email : ugadmission@vit.ac.in  
Website : www.vit.ac.in

#### **For Hostel details contact:**

**Chief Warden**  
VIT University  
Vellore - 632 014, Tamil Nadu, INDIA  
Phone : 0416-220 2028 (2 lines), 220 2528  
Email : chiefwarden@vit.ac.in  
Mens Hostel : +91-416-220 2028, 220 2528  
Fax : +91-416 224 4705  
Ladies Hostel : +91-416-220 2710  
Fax : +91-416 420 7074

### Commencement of Classes (Tentative) – Chennai Campus

**B.Tech. – Civil, CSE, ECE, EEE, Mechanical** **Friday, July 04, 2014.**

#### **For Admission details contact:**

**Administrative Officer**  
VIT University, Chennai Campus  
Vandalur - Kelambakkam Road  
Chennai - 600 127  
Tel : +91 44 3993 1555  
Fax : +91 44 3993 2555  
Email : admin.chennai@vit.ac.in

#### **For Hostel details contact:**

**Chief Warden**  
VIT University, Chennai Campus  
Vandalur - Kelambakkam Road,  
Chennai - 600 127, Tamil Nadu, India  
Tel : +91 44 3993 1205  
Mens Hostel : +91 44 3993 1205  
Ladies Hostel : +91 44 3993 1251  
Fax : +91 44 3993 2555

## Scholarship under “GV School Development Programme” (GVSDP)

Performance	Scholarship
Toppers of each State Board and Central Board	100% Tuition fee waiver for all the four years.
VITEEE rank holders of 1 to 50	75% Tuition fee waiver for all the four years.
VITEEE rank holders of 51 to 100	50% Tuition fee waiver for all the four years.
VITEEE rank holders of 101 to 1000	25% Tuition fee waiver.

**We do not accept cash. We collect fees only in the form of Demand Drafts.**

**We do not have any agents.**

**If any one demands any cash, please report it to [vigilance@vit.ac.in](mailto:vigilance@vit.ac.in) to enable us to take legal action.**

VIT – A place to learn; A chance to grow

### Legal Jurisdiction

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



**VIT**<sup>®</sup>  
**UNIVERSITY**  
(Estd. u/s 3 of UGC Act 1956)

**VELLORE ■ CHENNAI**

Vellore - 632014, Tamil Nadu, India  
[www.vit.ac.in](http://www.vit.ac.in)