



Semester-1 2017-18

BITSAT-2017

A computer based online test for admissions to Integrated First Degree programmes of BITS, Pilani at Pilani campus, K. K. Birla Goa campus and Hyderabad campus



BITS Pilani
Pilani | Dubai | Goa | Hyderabad



Brochure **BITSAT-2017**

A Computer Based Online Test for Admission to
Integrated First Degree programmes of BITS, Pilani, 2017-18

The Birla Institute of Technology and Science (BITS) Pilani is an all India Institution declared as Deemed to be University under Section 3 of the UGC Act. Admissions to all the Integrated First Degree programmes of BITS, Pilani, at Pilani campus, Goa campus, and Hyderabad Campus for the academic year 2017-18 will be made on the basis of a Computer based Online Test conducted by BITS, Pilani. This test will be referred to as 'BITS Admission Test – 2017', in short as **BITSAT-2017** hereafter in this document.

1. Integrated First degree programmes to which admissions will be made on the basis of BITSAT-2017:

(i) at BITS, Pilani – Pilani Campus:

B.E.: Chemical, Civil, Computer Science, Electrical and Electronics, Electronics & Instrumentation, Mechanical, Manufacturing.

B.Pharm.;

M.Sc.: Biological Sciences, Chemistry, Economics, Mathematics, Physics and
M.Sc.: General Studies.

(ii) at BITS, Pilani – K. K. Birla Goa Campus:

B.E.: Chemical, Computer Science, Electronics & Communication, Electrical and Electronics, Electronics & Instrumentation, Mechanical.

M.Sc.: Biological Sciences, Chemistry, Economics, Mathematics, Physics.

(iii) at BITS, Pilani – Hyderabad Campus:

B.E.: Chemical, Civil, Computer Science, Electronics & Communication, Electrical and Electronics, Electronics & Instrumentation, Mechanical, Manufacturing.

B.Pharm.;

M.Sc.: Biological Sciences, Chemistry, Economics, Mathematics, Physics

2. Eligibility:

- (i) **For admission to all the above programmes except B.Pharm.:** Candidates should have passed the 12th examination of 10+2 system from a recognized Central or State board or its equivalent with Physics, Chemistry, and Mathematics and adequate proficiency in English.
- (ii) **For admission to B.Pharm.:** Candidates should have passed the 12th examination of 10+2 system from a recognized Central or State board or its equivalent with Physics, Chemistry, and Biology and adequate proficiency in English. However candidates with PCM may also apply for Pharmacy program.

Admissions to all the programmes are subject to the conditions given below:

The candidate should have obtained a minimum of aggregate 75% marks in Physics, Chemistry and Mathematics subjects (if he/she has taken Mathematics in BITSAT) or a minimum of aggregate 75% marks in Physics, Chemistry and Biology subjects (if he/she has taken Biology in BITSAT) in 12th examination, with at least 60% marks in each of the Physics, Chemistry, and Mathematics/ Biology subjects.

Only Students who are appearing for 12th examination in 2017 or who have passed 12th Examination in 2016 are eligible to appear in the BITSAT-2017 test. If a candidate has taken more than one attempt in 12th class or its equivalent, only his latest performance is considered, provided this attempt has been for the full component of subjects/courses prescribed. Students who have passed 12th examination in 2015 or earlier are **NOT** eligible to appear in BITSAT-2017. Students who are presently studying in BITS at any of its campuses are not eligible to appear in BITSAT-2017.

Admissions will be made purely on merit. The merit position of the candidate for admission will be based on the score obtained by the candidate in the BITSAT-2017. However, their eligibility for admission is subject to fulfilling the requirement of minimum marks in 12th examination, as mentioned above.

Direct Admission to Board Toppers:

In the past, admission process of the Institute always ensured guaranteed admission to all the students who obtained first ranks in their respective board examinations. This has given a very vital input of highly meritorious students from all over India. First rank students of all the central and state boards in India for the year 2017 will be given direct admission to the program of their choice, irrespective of their BITSAT-2017 score as per the eligibility criteria mentioned above. Further details about this scheme will be available at BITS admission website by 20th May, 2017.

3. Details of BITSAT-2017:

'Computer Based Online test' means the candidate sits in front of a computer and the questions are presented on the computer monitor and the candidate answers the questions on the computer through the use of keyboard or mouse. Each computer is connected to a server, which prepares the question set and delivers it to the candidate on the computer. This is unlike the traditional paper-pencil based test, which is generally offered on a single day to all candidates. BITSAT-2017 will be offered over a period of time and the candidate can choose the Center, the Day and Time of his/her convenience to take the test, as described in the later sections.

BITSAT-2017 Test Format:

BITSAT-2017 will be of total 3-hour duration (without break). The test consists of four parts:

Part I	:	Physics
Part II	:	Chemistry
Part III	:	(a) English Proficiency and (b) Logical Reasoning
Part IV	:	Mathematics or Biology (For B.Pharm candidates)

All questions are of objective type (multiple choice questions); each question with choice of four answers, only one being correct choice. Each correct answer fetches 3 marks, while each incorrect answer has a penalty of 1 mark (-1mark). No marks are awarded for questions not attempted. While the candidate can skip a question, the computer will not allow the candidate to choose more than one option as correct answer. There will be 150 questions in all. The number of questions in each part is as follows:

	Subject	No of questions
Part I	Physics	40
Part II	Chemistry	40
Part III	(a) English Proficiency	15
	(b) Logical Reasoning	10
Part IV	Mathematics/Biology (For B.Pharm)	45
	Total:	150

There is no time limit for individual parts of the test. The candidate can go back and change any of his/her answers among the 150 questions.

If a candidate answers all the 150 questions (without skipping any question), the candidate will have an option of attempting 12 (twelve) extra questions, if there is still time left. These extra questions will be from Physics, Chemistry, and Mathematics/Biology only; four questions from each part. Further, once the candidate has opted for extra questions, he/she cannot go back for correction of any of the earlier answered 150 questions.

The questions are so designed that a good student will be able to answer 150 questions in 180 minutes. The extra questions (a maximum of 12) will give a chance to highly meritorious candidates to score higher. However, candidates should keep in mind the fact that there is **negative marking** for wrong answers and any attempt to answer the questions by pure guessing of the answers is not likely to have any advantage, but may result in a reduction in the total score.

The questions will be selected at random from a large question bank. Different candidates will get different question sets. An expert committee will ensure that the question sets are of comparable difficulty level, content, question type etc. In this matter, the decision of the expert committee will be final and binding on the candidate.

All the questions and instructions of the test will be in English only. Candidates should bring a pen for the purpose of rough work, signing etc. Blank sheets for rough work will be provided, if required. Calculators and logarithmic tables are **not allowed** in the test centers. Candidates are not allowed to bring any other personal belongings such as mobiles.

Each candidate who registers for BITSAT-2017 will be instructed to download a 'Hall Ticket'. Candidates with the hall ticket only will be allowed inside the Test centers. All centers are closely monitored for security reasons and candidates' identity and activities will be recorded

using web cameras and/or closed circuit TV cameras fitted in the test centers. Candidate's finger print and photograph will be taken at the time of the test and will be matched at the time of admission. Anyone violating the rules of the test center will not be allowed to continue with the test and will automatically be disqualified.

Syllabus:

The BITSAT-2017 test will be conducted on the basis of NCERT syllabus for 11th and 12th class. The detailed syllabus is given in the Annexure. Candidates may refer to the NCERT textbooks for the contents. A sample test demonstrating the features of BITSAT-2017 will be made available to the registered candidates at the BITS admission website on which he/she can practice as many times as desired.

4. BITSAT score report:

At the completion of the test, the computer will announce the result to the candidate in terms of number of total correct answers and wrong answers, with the score. The candidate can also check and print his score report at the BITS admission website after all the tests are completed. No student will be allowed to repeat the test in the same year.

5. Merit List for Admission:

As explained earlier, a candidate who has appeared in BITSAT-2017 will be eligible for admission only if he/she gets the required minimum marks in the Physics, Chemistry and Mathematics subjects of 12th examination as per the eligibility criteria described already. All candidates who have appeared in BITSAT-2017 and are interested in admission will be required to submit Admission application with 12th marks and preferences to different degree programmes offered, starting from 20th May 2017 till 30th June 2017. The details of this will be made available in the BITS admission website by 20th May 2017.

The merit position of such eligible candidates (i.e., those who have appeared in BITSAT-2017 and who have submitted the application for admission in the prescribed form with 12th marks, preferences and the required fees) will be prepared on the basis of their scores in BITSAT-2017. There will be two separate merit lists prepared for admission. One for all the programmes except the B.Pharm. and, the other only for B.Pharm. The cases of bracketing, if any, will be dealt with as described below:

When the score of two candidates are the same, first their scores obtained in Mathematics/Biology (For B.Pharm) in BITSAT-2017 will be considered for separating them, If the tie still exists, then their scores in Physics in BITSAT-2017 will be considered for separating them. Further tie is eliminated using their scores in Chemistry. Finally, their PCM/PCB(for B.Pharm) total marks in 12th examination will be considered for their separation.

6. Test Centers for BITSAT-2017:

In order to facilitate a large number of students all over India to participate in BITSAT-2017, **apart from Pilani, Goa and Hyderabad** campuses of BITS where it is expected that a large number of students will take the test, the Institute is also planning to offer the tests at dedicated test centers in several other cities. The planned test centers are in the following cities:

- | | | |
|--|------------------------------|------------------------|
| 1. Agra | 18. Hyderabad Campus of BITS | 35. Pune |
| 2. Ahmedabad | 19. Hyderabad City | 36. Raipur |
| 3. Allahabad | 20. Indore | 37. Rajahmundry |
| 4. Bangalore | 21. Jaipur | 38. Ranchi |
| 5. Bhopal | 22. Jalandhar | 39. Roorkee |
| 6. Bhubaneswar | 23. Jammu | 40. Siliguri |
| 7. Chandigarh | 24. Jamshedpur | 41. Surat |
| 8. Chennai | 25. Jodhpur | 42. Tirupati |
| 9. Coimbatore | 26. Kanpur | 43. Thiruvananthapuram |
| 10. Delhi | 27. Kolkata | 44. Vadodara |
| 11. Dubai Campus of BITS
(International Center) | 28. Lucknow | 45. Vijayawada |
| 12. Ghaziabad | 29. Mumbai | 46. Visakhapatnam |
| 13. Goa Campus of BITS | 30. Nagpur | 47. Agartala |
| 14. Gorakhpur | 31. Nasik | |
| 15. Gurgaon | 32. Noida | |
| 16. Guwahati | 33. Patna | |
| 17. Gwalior | 34. Pilani campus of BITS | |

The candidate can choose the centers from within India or Dubai. If a candidate chooses centers within India, he/she will be asked to give three preferences and will be allotted one out of these three. **If a candidate chooses Dubai as a center, he/she will not be asked for any other center preference and will be allotted Dubai center only.**

The final list of test centers in India and the operating days at each center in India and Dubai will depend on the number of applicants and their preferences and will be announced only after all the applications are received and candidates will be informed of the same through BITS admission website, so that the candidates can choose their date and slot for the test as per their convenience and availability of slots in any of these centers.

7. Important dates and deadlines:

Deadline to apply for BITSAT-2017	: 6th March 2017 (5.00pm)
Revision/editing in the application form by candidates	: 7 th – 10 th March 2017
Test center allotment and announcement to candidates	: 15 th March 2017
Candidates to reserve Test date and slot	: 20 rd March – 5 th April 2017
Candidates to download the Hall tickets with instructions	: 15 th April – 10 th May 2017
BITSAT Online tests	: 16 th May – 30 th May 2017
Apply for admission with 12 th marks and Preferences	: 20 th May 2017 – 30 th June 2017
Admit List and Wait List announcement	: 1st July 2017

8. How to apply for writing BITSAT-2017?

Interested candidates should register their names for BITSAT-2017 by applying in the prescribed application form online. Complete the application form online at <http://www.bitsadmission.com> and pay the prescribed fees. Also take the printout of the filled-in form for your future reference. **The prescribed fee for BITSAT-2017 is Rs. 2750/- (two thousand seven hundred fifty) for male candidates and Rs. 2250/- (two thousand two hundred fifty) for female candidates.**

If a candidate chooses Dubai as a test center the application fee for both male and female candidates will be same and will be US \$60 (or Indian Rs. 4000/-). Details for payment of fees are available at the admission website while applying online.

Deadline to apply for BITSAT-2017 online along with the fee payment is 5.00pm on 6th March 2017 (Monday).

Those who register for the test and reserve test dates have to download the 'Hall ticket', alongwith instructions, from BITS admission website as per the schedule given earlier. The tests will be conducted during 16th May – 30th May 2017.

9. Procedure for Applying for admission to BITS:

In addition to applying and appearing for BITSAT-2017, candidates have to also apply for admission to BITS giving details of their 12th marks and preferences to different degree programmes offered. The prescribed application form for admission, the detailed application procedure, details of academic flexibilities such as Dual Degree, Transfer etc; admission modality and the final list of Degree programmes offered will be available at the BITS admission website, by 20th May 2017. The completed form with the required application fee has to be submitted so as to reach the under-mentioned on or before 5.00 PM on 30th June 2017.

**The Dean (Admissions)
Admissions Office
BITS, Pilani – 333 031
Rajasthan**

10. Board codes

The codes for the name of the Board from which you have passed/ appearing in the 12th examination are as follows which should be used while filling application form:

Name of the Board and Examination	Board Code
i) Central Board of Secondary Education - All India Senior School Certificate Examination	CBAT
ii) Council for the Indian School Certificate Examination - Indian School Certificate (Year-12) Examination	ISCT
iii) Board of Intermediate Education, Andhra Pradesh - Intermediate Examination	APBT
iv) Assam Higher Secondary Education Council - Higher Secondary (+2) Examination	ASBT
v) Bihar Intermediate Council, Bihar Intermediate Examination	BICT
vi) Board of Secondary Education, Chhatisgarh - Higher Secondary School Certificate Examination	CGBT
vii) Goa Board of Secondary and Higher Secondary Education - Higher Secondary School Certificate Examination	GDBT
viii) Gujarat Secondary Education Board, Gujarat - Higher Secondary Certificate Examination (10+2 Pattern)	GJBT
ix) Board of School Education, Haryana - Senior Secondary Certificate Examination	HRBT
x) Himachal Pradesh Board of School Education - Senior Secondary (+2) examination	HPBT
xi) The Jammu & Kashmir State Board of School Education - Higher Secondary Part II Examination, Jammu/Kashmir Region	JKBW
xii) Jharkhand Intermediate Council, Jharkhand Intermediate Examination	JHCT
xiii) Board of Pre-University Examination, Karnataka - Second Year Pre-University Examination	KART
xiv) Board of Higher Secondary Examination, Kerala - Higher Secondary Examination	KERT
xv) Board of Secondary Education, Madhya Pradesh - Higher Secondary School Certificate Examination (10+2)	MPBT
xvi) Maharashtra State Board of Secondary and Higher Secondary Education - Higher Secondary Certificate Examination	MSBT
xvii) Council of Secondary Education, Manipur – Higher Secondary Examination	CHMT

Name of the Board and Examination	Board Code
xviii) Meghalaya Board of School Education - Higher Secondary School Leaving Certificate Examination	MEGT
xix) Mizoram Board of School Education – Higher Secondary School Leaving Certificate Examination	MZBT
xx) Nagaland Board of School Education - Higher Secondary School Leaving Certificate Examination;	NAGT
xxi) Council of Higher Secondary Education, Orissa - Higher Secondary Examination	CHOT
xxii) Punjab School Education Board - Senior Secondary Certificate Examination (Part II)	PNBT
xxiii) Board of Secondary Education, Rajasthan - Senior Secondary Examination	RJBT
xxiv) Board of Higher Secondary Examination, Tamil Nadu - Higher Secondary Exam.	TNBT
xxv) Tripura Board of Secondary Education - Higher Secondary (+2 Stage) Examination	TRBT
xxvi) Board of Intermediate Examination, Uttaranchal - Intermediate Examination	UABT
xxvii) Board of Intermediate Examination, Uttar Pradesh - Intermediate Examination	UPBT
xxviii) West Bengal Council of Higher Secondary Examination - Higher Secondary Examination	WBBT
xxix) Foreign Qualifications	FORW
xxx) Any Other Board/ University (not covered above)	AOBW

Important Notes:

- i. The tests are generated from a large question bank and different candidates will get different question sets. An expert committee will ensure that the question sets are of comparable difficulty level, content, question type etc. In this matter, the decision of the expert committee will be final and binding on the candidate.
- ii. The test assumes that the candidate has basic familiarity with computers, keyboard and mouse operation. It is the responsibility of the candidate to acquire these skills before appearing in the test and the Institute cannot take responsibility for the same.
- iii. The Institute is planning to operate test centers in different cities other than Pilani, Goa and Hyderabad campuses of BITS as previously stated. The final list of centers and actual days of operation will be announced to candidates through the BITS admission website www.bitsadmission.com. The Institute cannot guarantee

that test centers will be set up in all these cities. Further, the Institute reserves the right to cancel any test center if such a situation arises. In such cases, those candidates allotted to these centers will be accommodated in alternate test centers including Pilani/Goa/Hyderabad campuses of BITS.

- iv. **While BITSAT-2017 tests are scheduled to be held during the period 16th May – 30th May 2017, some of the test centers may operate only for a limited duration during this period depending on the number of applications received. The final list of the centers will be announced at BITS admission website after all the applications are received.**
- v. **Each day the exam will be conducted in two slots. The first slot will be from 9.00am till 12.00noon and the second slot will be from 2.00pm till 5.00pm. A candidate can choose anyone out of these two slots based on the availability. More details will be available on the admission website.**
- vi. The preferences that you give are only indicative and are to guide the Institute for deciding the number of centers. The Institute cannot guarantee that you will get your first preference. Further, if the Institute is unable to allot any center of your choice, you will be allotted a center either at Pilani or at Goa or at Hyderabad campuses of BITS. The exact center where you will be appearing for the test will be announced at BITS admission website www.bitsadmission.com. However, the Institute will try to accommodate all female candidates at their first preference of test centers.
- vii. Candidates who are allotted test centers in Pilani/Goa/Hyderabad campuses of BITS may be given accommodation on nominal charges in hostels.
- viii. The candidate must fully obey the rules of the test centers; otherwise he/she will be automatically debarred from the test.
- ix. **A candidate can apply online only once for BITSAT-2017. However, if a candidate completes the application form along with fee but discovers any mistake in the form submitted by him/her, he/she can edit the required fields in the online application during March 7-10, 2017.**
- x. In addition to applying for and appearing in BITSAT-2017, candidates have to also apply for admission to BITS as per the 'Procedure for applying for Admission' outlined earlier. The prescribed application form for admission will be available at the BITS admission website, by 20th May 2017, for those who appear in BITSAT-2017. The completed form with the required application fee has to be submitted so as to reach the Admissions Office on or before 5.00 PM on 30th June 2017.
- xi. **All information and communications regarding BITSAT-2017 and Admission to BITS are made available to the registered candidates on the BITS admission website www.bitsadmission.com. Candidates are advised to view this website regularly for all related information on BITSAT and on admissions to BITS.**
- xii. In all matters in the conduct of BITSAT-2017, the decision of the Vice Chancellor of BITS, Pilani will be final.
- xiii. All disputes pertaining to BITSAT-2017 shall fall within the jurisdiction of Pilani only.