

Department of Information Technology  
School of Technology  
North-Eastern Hill University, Shillong-793022

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**B.Tech.(IT) Lateral Entrance Examination-2021**

The admission/selection in the B.Tech. (IT) Lateral program will be done on the basis of an online written test (please refer to the detailed syllabus). The tentative date, time and schedule of the online test are as follows:

<b>Document Upload</b>	Monday, 27th Sept. 2021
<b>Date of Admission Test (Online Mode)</b>	Thursday, 30th Sept. 2021
<b>Time of Admission Test</b>	12.30PM–1.30PM
<b>Mode of Examination</b>	<b>(Online mode. Link will be notified shortly)</b>
<b>Date of Merit list publication</b>	Tuesday, 5th Oct. 2021 (Tentative)
<b>Date of Admission</b>	Friday, 8th Oct 2021 (Tentative)
<b>Commencement of class</b>	Monday, 18 <sup>th</sup> Oct., 2021 (Tentative)

In case, any candidate fails to login or appear for the test on the specified date and time mentioned above, he/she will forfeit his/her candidature. There will not be any second entrance test at any circumstances.

A merit list shall be prepared based on the composite score of the followings:

- (a) Marks secured in the entrance exam.
- (b) weightages will be given to the candidates per the criteria mentioned in the prospectus 2021.

The decision of the admission committee in all matter shall be binding and final.

All the candidates who have applied for admission in B.Tech.(IT) Lateral, 2021 through the NEHU online admission portal are eligible to appear the entrance examination test. ***No separate admit card or call letter will be issued for the same.***

*You are further informed to upload the following documents using the google form link <https://forms.gle/xFcrodtynerHmDK7> failing which your candidature will stand cancelled:*

1. Pass certificates of all board/council/ University examinations starting from HSLC or equivalent.
2. Marksheets / grade cards of all board/council/University examinations starting from H SLC or equivalent.
3. One official transcript/grade to percentage conversion formula.
4. Valid certificate for SC/ST issued by Deputy Commissioner(DC) or competent authority under the seal of DC's office only.
5. Permanent Resident Certificate for those who are claiming the permanent resident of Meghalaya.
6. Relevant documents against any claim of special category (E.g. EWS, Kashmiri migrant, NEHU quota etc. refer prospectus for more details).

Sd/-

**Chairman**  
**B.Tech(IT) Lateral Admission Committee**

**The detailed syllabus of Written Test for  
B.Tech (IT) LATERAL ENTRY ENTRANCE EXAMINATION-2021**

**Programming in C**

Introduction to Programming Language C: Data Types, Instruction and its Types, Storage Classes, Operators and Hierarchy of Operations, Expressions in C, Control and Repetitive Statements, break, continue, Functions: User Defined Functions and Library Functions, Local and Global Variables, Parameter Passing, Pointers, Arrays, Strings, C Preprocessors, Structures, Input and Output in C, C-Library.

**Data Structure & Algorithm**

Array, Linked list, Stack, Queue, Expression evaluation, Sorting, Tree, Graph.

**Computer Organization & Architecture**

Number system, Boolean Expression, Instruction, Central Processing Unit, Memory, I/O devices

**Operating Systems & Computer Networking**

Process and threads, Mutual exclusion, Semaphores, Deadlock, Memory management

requirements, Virtual memory, scheduling algorithms.

ISO/OSI Model, TCP/IP Model, Multiple access protocols, IEEE 802.X LANs and MANs-Ethernet, Token Ring, Token Bus, TCP and UDP.