

Department of Information Technology  
School of Technology  
North-Eastern Hill University, Shillong- 793 022

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**M.Tech. (IT) Entrance Examination 2017**

The admission/selection in the M.Tech program for **18+2** (supernumerary) seats will be done on the basis of a written test (Please refer to the detailed syllabus) of three hour duration (total marks 100).

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

- (a) Marks secured in the entrance exam.
- (b) Weightages given to the candidates as per NEHU rules.
- (c) Weightages given to the candidates having valid GATE score.

Date, time and venue of the written test are as follows:

<b>Date of written Test</b>	Friday, 14 <sup>th</sup> July 2017
<b>Time of written Test</b>	10.30 AM – 12.30 PM
<b>Venue</b>	Department of Information Technology, School of Technology, NEHU, Shillong 793 022
<b>Reporting Time</b>	9:30 AM

*In case, any candidate fails to report at the reporting time and venue on the specified date and time mentioned above, he/she will forfeit his/her claim to appear the entrance examination.*

*Candidates who have not submitted the printed application form along with supporting documents to the Department of IT must bring along at the time of written test.*

*You are further informed to bring the following documents in **ORIGINAL** for verification failing which you will not be allowed to appear the entrance examination:*

1. Pass certificates of all board/council/University examinations starting from HSLC or equivalent.
2. Mark sheets/grade cards of all board/council/University examinations starting from HSLC or equivalent.
3. Valid certificate for SC/ST issued by Deputy Commissioner (DC) or competent authority under the seal of DC's office only.
4. Permanent Resident Certificate for those who are claiming the permanent resident of Meghalaya.
5. Any other document/certificate in support of your application.
6. GATE score card (if qualified).

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

Sd/-

**Chairman**  
**M.Tech (IT) Admission Committee**

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**The detailed syllabus of written test for M.Tech (IT) Entrance Examination 2017**

**C Programming (20 marks)**

Variables and Data Types, Operators and Expressions, Branching and looping operation, Functions, Arrays, Structures and Unions, Pointers, File Management.

**Data Structure & Algorithm (20 marks)**

Array, Linked List, Queue, Stack, Tree, Graph, Hashing, Searching, Sorting Algorithms

**Computer Organization & Architecture (20 marks)**

Machine instructions and addressing modes, ALU and data-path, CPU control design, Memory interface, I/O interface (Interrupt and DMA mode), Instruction pipelining, Cache and main memory, Secondary storage.

**Operating System (10 marks)**

Processes, Threads, Inter-process communication, Concurrency, Synchronization, Deadlock, CPU scheduling, Memory management and virtual memory, File systems, I/O systems, Protection and security.

**Data Communication & Networking (10marks)**

ISO/OSI and TCP/IP protocol stack, LAN design, Flow and error control techniques, IP addressing, Internet Protocol, Routing algorithms, TCP/UDP and sockets, Congestion control, Application layer protocols (dns, smtp, snmp, ftp, http); Basic concepts of hubs, switches, gateways, and routers.

**Mathematics (20 marks)**

Mathematical Logic, Probability, Set Theory, Algebra, Permutations, Combinations, Graph Theory, Linear Algebra, Numerical Methods, Calculus.

**Important Dates (tentative)**

<b>Date of M.Tech Entrance Examination</b>	14 <sup>th</sup> July 2017
<b>Publication of Merit List</b>	19 <sup>th</sup> July 2017
<b>Date of Admission</b>	3 <sup>rd</sup> August 2017
<b>Notification regarding vacancy (if any)</b>	4 <sup>th</sup> August 2017
<b>Date of Admission for wait listed candidates</b>	14 <sup>th</sup> August 2017
<b>Commencement of classes</b>	7 <sup>th</sup> August 2017

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**List of eligible candidates (provisional) for appearing M. Tech (IT) Entrance Examination 2017**

Following is the list of eligible (provisional) candidates for appearing M. Tech (IT) Entrance Examination for the session 2017-18:

Roll No	Application No	Applicant's Name
MTEE/IT/1701	1720010	RIYA SAHA
MTEE/IT/1702	1720019	NIDHI SINGH
MTEE/IT/1703	1720026	PRATYASHEE CHANGMAI
MTEE/IT/1704	1720036	SURAJ KUMAR ROY
MTEE/IT/1705	1720038	N MOMPI DEVI
MTEE/IT/1706	1720047	NIMESH KUMAR
MTEE/IT/1707	1720048	BORNALI BARUAH
MTEE/IT/1708	1720051	KRIPANKAR MAJUMDER
MTEE/IT/1709	1720057	MOKTADUR RAHMAN
MTEE/IT/1710	1720059	ARMAAN HASIB
MTEE/IT/1711	1720066	TANUSHREE NANDY
MTEE/IT/1712	1720074	SHAMBHU NATH BHATTACHARYA
MTEE/IT/1713	1720078	RUHULLAH KHAN
MTEE/IT/1714	1720103	MAYUR BHARGAB BORA
MTEE/IT/1715	1720115	SRIRAKSHA
MTEE/IT/1716	1720122	SHAMBHU KUMAR
MTEE/IT/1717	1720125	MUHAMMAD SAIFUR RAHMAN
MTEE/IT/1718	1720138	MD ANSER ALI
MTEE/IT/1719	1720139	KAJARI ANANYA DAS
MTEE/IT/1720	1720146	SPANDAN KUMAR BARTHAKUR
MTEE/IT/1721	1720150	RASHMI BARUAH
MTEE/IT/1722	1720151	NEERAJ KUMAR CHAUHAN
MTEE/IT/1723	1720152	VEDANT KUMAR
MTEE/IT/1724	1720154	RAJESH KUMAR
MTEE/IT/1725	1720155	PRASHANT BHARADWAJ

MTEE/IT/1726	1720162	ARPAN JYOTI NAIDU
MTEE/IT/1727	1720173	WALAYAT ALI BHAT
MTEE/IT/1728	1720183	SHRADDHA KARKI
MTEE/IT/1729	1720184	RAVINANDAN
MTEE/IT/1730	1720113	MANOJ DAS
MTEE/IT/1731	1720129	ANKUR DAS
MTEE/IT/1732	1720021	ANSUMA NARZARY
MTEE/IT/1733	1720022	RISANLANG HYNNIEWTA
MTEE/IT/1734	1720024	SUPRIYA LANGTHASA
MTEE/IT/1735	1720027	PETER MAWLONG
MTEE/IT/1736	1720028	KINOLI CHISHI
MTEE/IT/1737	1720046	BINITA BORO
MTEE/IT/1738	1720071	ABUL KARIM KHONGTHAW
MTEE/IT/1739	1720072	DINTHISRANG DAIMARY
MTEE/IT/1740	1720076	ENGELBERT PYNSHAILANG NONGBRI
MTEE/IT/1741	1720114	SUHEL DEBBARMA
MTEE/IT/1742	1720116	NG KAMBA ROMEO
MTEE/IT/1743	1720127	MARARKI DKHAR
MTEE/IT/1744	1720134	SILVESTAR SOHSHANG
MTEE/IT/1745	1720142	DANSWRANG BASUMATARY
MTEE/IT/1746	1720143	RAJASHREE BORDOLOI
MTEE/IT/1747	1720149	RYNGKAT DHAR
MTEE/IT/1748	1720153	KHRAWNAM KHARKONGOR
MTEE/IT/1749	1720163	DARIKYNTI SYIEM
MTEE/IT/1750	1720170	PESHIA S KHIAMNIUNGAN
MTEE/IT/1751	1720179	NANGSKHEMBOR MAJAW
MTEE/IT/1752	1720185	TONIYA PADI
MTEE/IT/1753	1720190	MONOJIT BASUMATARY
MTEE/IT/1754	1720191	BIDHATA DEBBARMA
MTEE/IT/1755	1720193	MEBANJOP KHARJANA
MTEE/IT/1756	1720195	MEDARISHA HYNNIEWTA THANGKHIEW
MTEE/IT/1757	1720207	BIRGLANG BARGAYARY