

Ph. D Admission (JAN 2020 Session)

List of Candidates shortlisted for Written Test /Interview to be held on 27-11-2019

Computer Science and Engineering

S.No	Application No	Name of Candidate	Applied Scheme
1.	20010038	THURIMERLA PRASANTH	HTRA
2.	20010041	MADHAN V	External
3.	20010045	S MEENAKSHI	HTRA
4.	20010082	ANGEL BARAKKA J	HTRA
5.	20010085	M CHARANYA	External
6.	20010089	MATHUMITHA. G. S	HTRA
7.	20010118	APPASAMI G.	HTRA
8.	20010138	AARTHI S	HTRA
9.	20010144	DEEPA V	HTRA
10.	20010148	SYED ZUBAIR AHMED HUSSAINY	HTRA / NHTRA
11.	20010150	NOORUL JULAIHA A.G	HTRA / NHTRA
12.	20010158	PRAMEELA MADAMBAKAM	HTRA
13.	20010166	POTHANA VAMSI NAIDU	HTRA
14.	20010170	NAGOOR MEERAN	External
15.	20010173	LAVANYA P	External
16.	20010176	VISWANATH R	NHTRA
17.	20010178	JERINA BEGUM S	HTRA / NHTRA
18.	20010190	MANO . J	HTRA
19.	20010191	R.VIMALA	HTRA
20.	20010195	BANDI PRASHANTH BABU	HTRA / NHTRA
21.	20010198	NISHA VERMA	External
22.	20010201	K.VIJAYALAKSHMI	HTRA
23.	20010202	RANJITH R	NHTRA / External
24.	20010212	VICTOR RAJAN K	External
25.	20010237	VENKATESHWARA DEVI V	HTRA
26.	20010239	K RAVEENDRA REDDY	External
27.	20010244	BURLA SADHANA	External
28.	20010255	N.SIREESHA	HTRA
29.	20010257	A ANITHA JOSEPHINE	External
30.	20010276	VIJAYA VAHINI T	External
31.	20010286	A ANITHA JOSEPHINE	HTRA
32.	20010294	P NAVANEETHAKRISHNAN	HTRA
33.	20010302	KARCKEY	HTRA
34.	20010316	R. KARTHIKEYAN	HTRA / External
35.	20010317	PUSHPAKUMAR R	HTRA / External
36.	20010370	EBENEZER RAJADURAI T	HTRA
37.	20010395	SARAVANAKUMAR S	HTRA
38.	20010406	KARTHIKRAM A	HTRA
39.	20010410	PADULKAR DIGAMBAR MACHHINDRA	HTRA / NHTRA
40.	20010432	VASANDKUMAR K	External
41.	20010435	JIT GOEL	External

42.	20010437	YAWALE NUPOOR MANOHAR	External
43.	20010438	SONIKA C	HTRA
44.	20010441	I.VASUDEVAN	External
45.	20010447	VEERA RAGAVAN K	HTRA
46.	20010458	SASI KUMAR PATRA	HTRA
47.	20010461	MALATHY M	HTRA / External
48.	20010463	NANTHINI M	HTRA
49.	20010464	MAHALLE ANKUR SUBHASHRAO	NHTRA / External
50.	20010477	ANJALI T	External
51.	20010480	N KARTHICK	External
52.	20010486	SENTHIL KUMAR C	HTRA
53.	20010489	ANUSHA NALLAMALLA	HTRA
54.	20010490	PRABAKARAN K	HTRA
55.	20010495	P.N.KARTHIKAYAN	HTRA
56.	20010504	LATHA. R	HTRA
57.	20010514	KUCHE SNEHAL HARIHAR	External
58.	20010515	SNEHA VILAS KALBANDE	External
59.	20010517	SUDHAKAR ATCHALA	HTRA
60.	20010518	JAYANTHI J	HTRA
61.	20010559	RAMYADHARSHNI S S	HTRA
62.	20010560	M AMUDHA	HTRA
63.	20010567	SUNKARA SUSHMA	External
64.	20010571	JIT GOEL	External

List of Subjects and their Syllabus for Entrance Exam

The following subjects are for Computer Science students:

- (i) Discrete Mathematics
- (ii) Data Structures and Algorithms
- (iii) C programming
- (iv) Computer Organization

The following subjects are for Electronics and Communication Engineering

- (i) Data communications or Digital Signal Processing
- (ii) Data Structures and Algorithms
- (iii) C programming
- (iv) Computer Organization

Note: One optional subject related to the research area.

Evaluation: If a student opts for the optional subject, then his/her performance will be assessed against 5 subjects, otherwise 4 subjects.

Syllabus

Discrete Mathematics: Logic, Sets, Relations, Functions, Graphs

Data structure and algorithms: Linear ADTs – Stacks, Queues, List, Priority Queue ADT - Heaps, Non-Linear ADTs – Trees and Graphs, Searching and Sorting

Computer Organization: Fixed point and floating point representation, Binary Arithmetic (addition, subtraction, multiplication, division), Cache memory

C programming: Input/Output statements, Selection (IF/Switch Case) and Repetition Statements (For/While loop).

Data communications: Introduction, Data and signals, Digital Transmission, Bandwidth utilization: Multiplexing and spreading, Transmission media, Switching, Error detection and correction, Multiple access, Ethernet, Logical addressing, Internet protocol, TCP, UDP.

Digital Signal Processing: Signals and Systems, transformations, filters, processor architectures, 2-D signal processing.

Instruction for Shortlisted candidates

- You are requested to report for Written Test cum Interview at 09.30AM on 27-11-2019 (Wednesday) in Indian Institute of Information Technology Design and Manufacturing Kancheepuram located at Melakottaiyur, Vandalur-Kelambakkam Road, Chennai-600127.
- **You are requested to produce the following certificates in Original along with one set of self attested copy of certificates at the time of Interview for verification:**
 - Diploma, Degree Certificates or Provisional Certificates from the Competent Authority of University or Institute concerned. In case of candidates whose results are awaited, producing the marksheets / grade cards will be sufficient. However if selected, they have to produce the certificate mentioned for verification at the time of Admission.
 - All Mark Statements / Grade Cards of qualifying Examinations from SSLC onwards.
 - GATE Score Card / UGC / CSIR and Other fellowship award letter (as the case may be)
 - SC / ST / OBC Certificate, if applicable.
 - Sponsorship Letter, if applicable.
 - No Objection Certificate from the present employer, if applicable.
 - Printed Copy of Application generated through Online Registration.
- In case of discrepancy in the data provided online, you will not be permitted to attend Written Test / Interview.
- **No TA/DA will be paid for attending Exam and Interview for Ph.D programme.**
- Kindly confirm your participation for Written Test cum Interview by email to admissions@iiitdm.ac.in. The Written Test cum Interview cannot be postponed under any circumstances. The syllabus and other information are uploaded in our website: www.iiitdm.ac.in.
- In case of final selection, candidates are required to send their acceptance together with the fees for the first semester on or before 13-12-2019. Academic session for JAN-MAY 2020 semester will commence on 01-01-2020 onwards.

Ph. D Admission (JAN 2020 Session)

List of Candidates shortlisted for Written Test /Interview to be held on 27-11-2019

Electronics and Communication Engineering (Including Electrical Engineering)

S.No	Application No	Name of Candidate	Applied Scheme
1.	20010007	RAMALAKSHMI K	HTRA
2.	20010014	THONDAIMAN P	HTRA
3.	20010026	MARABATHINA MAHEEDHAR	HTRA
4.	20010033	MANJU MARIYA	HTRA
5.	20010047	PANDIYAN R	HTRA
6.	20010050	GAYATHRI DEVI R	NHTRA
7.	20010053	UDHAYANAN S	HTRA
8.	20010057	BHUKYA ARUN KUMAR	HTRA
9.	20010064	SRI LAKSHMI CHANDANA	External
10.	20010074	ARIGE SUMANTH	HTRA
11.	20010081	A PARTHIBAN	HTRA
12.	20010090	ANOOP H A	External
13.	20010092	AMITA BISWAL	HTRA
14.	20010093	SASIKALA P	HTRA
15.	20010096	ANTONY VIYANI ARASU	HTRA
16.	20010101	GORTHALA GURUPRASAD	HTRA
17.	20010105	SARANYA DAS Y M	HTRA
18.	20010107	M SURENDRA NATHA REDDY	HTRA
19.	20010122	JANANI .C	HTRA
20.	20010124	THEIVANATHAN	External
21.	20010125	HAREESHA DANDAMUDI	External
22.	20010127	B.V.SUBBAYAMMA	External
23.	20010131	K GOPIKRISHNA	Project
24.	20010133	K.T.PANNEERSELVAM	HTRA
25.	20010139	BASKAR M	HTRA
26.	20010143	SIVAGAMI. K.	HTRA
27.	20010145	SUMY MANUEL	HTRA
28.	20010147	PISUPATI VENKATA SAI RAJA BHARADWAJA	HTRA
29.	20010152	ANITHA M	HTRA
30.	20010154	SATHISH M	HTRA
31.	20010164	VEMANA G SANTHI SWAROOP	HTRA
32.	20010165	IMRAN BASHA SYED	HTRA
33.	20010175	R.SATHYA VIGNESH	External
34.	20010183	SUGANYADEVI S	HTRA
35.	20010187	PULIKONDA MOUNIKA	HTRA

36.	20010188	CHINTAPANTI MURALIKRISHNA	HTRA
37.	20010192	LAVANYA K S	HTRA
38.	20010196	S V RAVI KUMAR	HTRA
39.	20010208	MANOJKUMAR P	NHTRA
40.	20010224	RAJASREE MS	Internal
41.	20010225	ANISHA NATARAJAN	HTRA / NHTRA
42.	20010228	VIJAYKUMAR KUMMARI	Project
43.	20010232	VINODH	External
44.	20010240	MUTHUKUMARASWAMY P	HTRA
45.	20010243	DINESH K	External
46.	20010245	AIDA JONES	HTRA
47.	20010246	S NARENDRA KUMAR	HTRA
48.	20010248	S MADAN KUMAR	NHTRA / External
49.	20010251	PRAVEEN KUMAR BARIK	HTRA
50.	20010253	ARUN V	HTRA
51.	20010258	AJEYPRASAATH KB	HTRA
52.	20010261	SHANMATHI.S	HTRA
53.	20010263	SUBHASH B K	HTRA
54.	20010271	J.SOPHIA JONE	NHTRA
55.	20010273	PALANISAMY N	External
56.	20010279	P.SARAVANAN	HTRA
57.	20010292	MANIKANDAN S P	HTRA
58.	20010295	CHILLAKURU PRASAD	HTRA
59.	20010297	VIKAS SAHU	HTRA / External
60.	20010301	M HARI	HTRA
61.	20010303	RAGUL KANNAN R	Internal
62.	20010304	INIGO MAJELLA Y	HTRA / External
63.	20010312	SAM SURESH	External
64.	20010313	B.PRIYADHARSHINI	HTRA
65.	20010320	BEEMAGANI RAVINDER	HTRA
66.	20010324	SUBEEKRISHNA M P	HTRA
67.	20010345	ASHOK KUMAR BALIJEPALLI	External
68.	20010351	BHANUPRASAD EPPE	External
69.	20010353	GORREPATI ESWARS RAO	External
70.	20010355	BILLA PARTHASARATHI	External
71.	20010357	SINDHUPRIYA G	HTRA / External
72.	20010359	HARINI.S	NHTRA / External
73.	20010362	MUTHU MARI M	HTRA
74.	20010365	VAITHEESHWARI R	HTRA
75.	20010368	CHANDRASEKARAN R	External
76.	20010372	MOHAMED SHAHIN GANI K A	HTRA
77.	20010373	M.VINOTH	HTRA
78.	20010374	MANJUSHA SREEDHARAN	HTRA
79.	20010376	M ILAMATHI	HTRA

80.	20010378	SRIPATHI VIJAYA SAILAJA	NHTRA / External
81.	20010380	ANITHA M R	External
82.	20010381	BASANT	HTRA
83.	20010382	PUNITH KUMAR YANAGANDULA	HTRA / Internal / External
84.	20010384	SATHYARAJ J	HTRA
85.	20010392	SASIKALA S	HTRA
86.	20010399	VIDYA P JANAKI	HTRA
87.	20010400	YALAGALA SIVANJANEYULU	HTRA
88.	20010404	M. MAHENDRAN	HTRA
89.	20010412	SYEDMUSTAFAA M	HTRA / NHTRA
90.	20010416	RAMESH KUMAR	HTRA
91.	20010417	ARDHALA UDAYA KUMAR	HTRA
92.	20010419	SUBHANANTHAN N	HTRA
93.	20010420	SATHEESH KUMAR D	External
94.	20010426	RAMESHKUMAR R	HTRA
95.	20010436	JOHNSON ANTONY A	HTRA / External
96.	20010439	SRINIVASA REDDY	HTRA
97.	20010440	T SATHEESHKUMAR	HTRA / External
98.	20010442	K KANNAIAH	HTRA
99.	20010450	BARKAVI K	External
100.	20010453	J JIJIN GODWIN	External
101.	20010457	ABIMALA T	HTRA
102.	20010468	UDHAYAKUMAR M	External
103.	20010473	PALEPU ASHOK	HTRA
104.	20010474	MARIMUTHU M	HTRA / External
105.	20010475	RANJANI SB	HTRA
106.	20010476	J JAYASHREE	HTRA
107.	20010478	JEYASHREE A	HTRA / Project / Internal
108.	20010491	YAKKALA LAVANYA	External
109.	20010493	ASHOK KUMAR BANDLA	External
110.	20010494	JAIN VINITH P R	HTRA / NHTRA / Project / Internal / External
111.	20010499	RAJAVELU	HTRA
112.	20010500	K KARTHIKEYAN	HTRA / NHTRA / Project / Internal / External
113.	20010505	SAMINATHAN V	External
114.	20010506	P AARTHY	HTRA
115.	20010509	JOYLIN RINI R	HTRA
116.	20010513	GEETHA K	HTRA
117.	20010520	NARENDER MALISHETTY	External
118.	20010528	YUVARAJA S	HTRA / External

119.	20010533	PARTHASARATHY P	HTRA
120.	20010536	SANKAR RAJ R	External
121.	20010542	D. HARIKRISHNAN	HTRA
122.	20010544	MANIVANNAN L	HTRA
123.	20010548	J THAMEEMA BEGUM	HTRA / External
124.	20010557	CHANDRA SHEKAR P	HTRA
125.	20010562	PARTHASARATHY P	External
126.	20010563	M.AFSAR ALI	External
127.	20010568	BODIREDDY JANARDHAN	HTRA / Project
128.	20010570	M.RAJKUMAR	Internal

Syllabus for PhD written Exam

Power & Control

Operation of Buck, Boost and Buck-boost converters, Power semiconductor devices and characteristics, Operation of inverters – 180 degree mode and SPWM operation – single phase and three phase, AC to DC bridge converters – single and three phase.

Fourier series and Laplace transforms, DC, Single phase and three phase AC Circuit Analysis and Network Theorems.

Theory and operation of DC machines, Induction machines and PM synchronous machines (BLDC and PMSM). Electric Drives – Power electronic control of DC & Induction machines. Transfer function, transient and steady state response, Routh-Hurwitz, Bode plots, Root loci, Stability analysis, P, PI and PID controllers, State space model, State transition matrix, eigenvalues. Time and frequency domain analysis.

Microelectronics / VLSI / MEMS

Microelectronic Circuits: Diodes and applications, MOSFET and BJT amplifier circuits, Ideal Op amp, arithmetic circuits and other applications using Op amp. Boolean Algebra, Combinational circuit design, Sequential circuit design, Arithmetic circuits design, Memory design, CMOS Inverter, DC and Transfer characteristics, propagation delay, power dissipation.

Books for Reference:

1. Charles H Roth, "Fundamentals of Logic Design".
2. Donald A. Neamen, "Electronic circuit analysis and design"
3. Adel S. Sedra, Kenneth Carless Smith, "Microelectronic Circuits"
4. Ramesh S. Gaonkar, "Microprocessor Architecture, Programming, and Applications with the 8085/8080A"

Signal Processing

Signals and Systems: Classification of Signals and Systems, LTI system analysis: Impulse response, Convolution and Correlation. Sampling theorem, and properties. Continuous time Fourier series, Continuous time Fourier transform, Laplace transform, Inverse Laplace transform, Discrete-time Fourier series, Discrete-time Fourier transform, Discrete Fourier transform, FFT, Z transform, Inverse Z transform.

Probability and Random Process: Probability and random variable. Probability distribution functions – binomial, Poisson, exponential and normal. Single and multiple random variable operations- Mean, median, mode and standard deviation. combinatorial probability. Random process- Autocorrelation Function, Cross-Correlation Functions, Gaussian Random Processes, Power and Energy spectral functions.

Linear Algebra: Matrices operations- Inverse, Rank, LU decomposition, Eigen values and Eigen vectors. System equations. Vector calculations. Differentiation, Integration.

Communications, RF, and Fiber-Optics/Photonics Group

The question paper for the written test consists of four Sections namely, Section A, Section B, Section C, and Section D. Of the four Sections, Section A is common to all candidates, and from the remaining Sections, a candidate can choose only one Section that corresponds to his area of interest.

Section A: Signals and Systems, Fourier Series, and Fourier Transforms

Section B: Wireless Communications/Networks

Section C: Antennas/RF/Microwave

Section D: Fiber-optics, and Photonics

Syllabus for Section A: Basics of signals and systems, Fourier Series, Fourier Transforms, Frequency Response, Sampling Theorem

Syllabus for Section B: Basic Analog and Digital Communication Systems (AM, FM, BPSK, QPSK, QAM, FSK, etc), Probability theory (basic probability, random variables, and random processes)

Syllabus for Section C: Basics of electromagnetic fields and wave propagation, Transmission lines and waveguides, S-parameters, Fundamentals of electromagnetic radiation and antennas

Syllabus for Section D:

Electromagnetics - Vector analysis, Static electric and magnetic fields, Poisson's and Laplace equations, Method of images, Time varying fields and Maxwell's equations, Plane electromagnetic waves in free space, Reflection & transmission off an interface, Snell's law, Rectangular Waveguides, Transmission lines.

Fiber Optics - Single mode and multimode fibers, Numerical aperture, Dispersion, Basic principles of light generation (LED, LASER) and detection (PIN photodiode, APD).

Instruction for Shortlisted candidates

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 - GATE Score Card / UGC / CSIR and Other fellowship award letter (as the case may be)
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Mathematics

S. No	Application No	Name of Candidate	Applied Scheme
1.	20010077	SRIDHAR T	HTRA
2.	20010079	PANNEER SELVAM A	HTRA
3.	20010132	BHARANIDHARAN R	HTRA
4.	20010218	SANGEETHA S	HTRA
5.	20010235	KARTHIK SARAVANAN P	HTRA
6.	20010311	BALAMOORTHY S	HTRA

Instruction for Shortlisted candidates

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Syllabus for Ph.D candidates – Mathematics

Real Analysis: Sequences and series, convergence. Continuity, uniform continuity, differentiability, mean value theorem. Sequences and series of functions, uniform convergence. Riemann sums and Riemann integral.

Complex Analysis: Cauchy-Riemann equations, analytic functions, harmonic functions. Conformal mappings, Mobius transformations. Open mapping theorem, Liouville's theorem, Rouché's theorem, Morera's theorem. Poles and Singularities, Contour integrals, Cauchy Integral formula. Taylor's series, Laurent's series. Residues, Cauchy Residue theorem.

Linear Algebra: Vector spaces, algebra of linear transformations. Algebra of matrices, rank and determinant of matrices. Eigenvalues and eigenvectors. Matrix representation of linear transformations. Inner product spaces, orthonormal basis, Gram-Schmidt orthogonalization.

Algebra: Groups, subgroups, normal subgroups, quotient groups, homomorphisms, cyclic groups, permutation groups. Rings, ideals, prime and maximal ideals, quotient rings, Euclidean domain. Polynomial rings and irreducibility criteria. Fields, finite fields, algebraic extensions, Galois theory, Module theory.

Ordinary Differential Equations: Solution methods for ordinary first order differential equations. General theory of homogenous and non-homogeneous linear ordinary differential equations, variation of parameters, power series methods.

Graph Theory and Combinatorics: Permutations, combinations, pigeon-hole principle, inclusion-exclusion principle. Graphs, Euler and Hamilton graphs, Trees and other special families of graphs. Matching, independent set, coloring, graph isomorphism.

Ph. D Admission (JAN 2020 Session)

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Physics

Sl.No	Application No	Name of Candidate	Applied Scheme
1.	20010030	CHANDRA MOHAN S	External
2.	20010137	LALU CHERIYAN	HTRA
3.	20010259	VINOTH KUMAR R	HTRA
4.	20010411	MADHAVI S	External
5.	20010482	KIRAN DIVAKAR	HTRA

SYLLABUS FOR PH.D CANDIDATES PHYSICS

SYLLABUS FOR THE SCREENING TEST: Mathematical Methods, Electromagnetics, Classical mechanics, Quantum mechanics, Solid State Physics (PG /M.Sc/NET level).

Interview will be conducted encompassing all M.Sc level courses and the field of research interest mentioned in the application form by the applicant (similar to NET syllabi).

Instruction for Shortlisted candidates

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- **You are requested to produce the following certificates in Original along with one set of self attested copy of certificates at the time of Interview for verification:**
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 - Sponsorship Letter, if applicable.
 - No Objection Certificate from the present employer, if applicable.
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Ph. D Admission (JAN 2020 Session)

List of Candidates shortlisted for Written Test /Interview to be held on 29-11-2019

Mechanical Engineering

S.No	Application No	Name of Candidate	Applied Scheme
1.	20010004	VIGNESH.T	HTRA
2.	20010005	KUMARAVEL D	HTRA
3.	20010008	SUGANTH V	HTRA
4.	20010009	MAHATHI DHANAVANTHAN	HTRA / Project
5.	20010010	SALEEM M	HTRA
6.	20010017	BHUKYA VENKATESH	HTRA
7.	20010021	M ARUN	HTRA
8.	20010027	KISHORE KUMAR R	HTRA
9.	20010037	GABRIEL	HTRA
10.	20010039	SADHU SUNDAR SINGH .R.V	HTRA / Project
11.	20010044	KALIMUTHU T	HTRA
12.	20010051	BALAMANIKANDASUTHAN	HTRA
13.	20010056	NITHYANANDHAM G	HTRA
14.	20010059	PRABAKARAN S	HTRA
15.	20010068	CHINTHALA PANDU BALAJI	HTRA
16.	20010073	KATHIRAVAN S	HTRA
17.	20010087	AKULA SIVA BHASKAR	HTRA
18.	20010088	S SATYANARAYANA SWAMY VALLABHU	HTRA
19.	20010097	ZAKIR HUSSAIN M S	HTRA
20.	20010099	DINESH KUMAR S	HTRA
21.	20010110	JEROME EMIL J	HTRA
22.	20010111	BALAN R	HTRA
23.	20010115	RAMESH K	HTRA / NHTRA Project / Internal External
24.	20010119	S. RAJESWARI	HTRA
25.	20010121	KUMARESAN M	HTRA
26.	20010130	MANOJ KUMAR P	External
27.	20010134	AVINASH T	HTRA
28.	20010136	BIKASH KUMAR PRADHAN	HTRA

29.	20010142	VIKNESH K S	HTRA
30.	20010151	SANKARAKUMAR S	HTRA
31.	20010155	DHARANI B	HTRA
32.	20010156	SANKARARAO VINJAVARAPU	HTRA / External
33.	20010160	RADHADEVI MATTI	External
34.	20010162	K PERIASAMY	HTRA
35.	20010163	S VIJAY	HTRA
36.	20010172	P KANNAN	Internal
37.	20010182	PALLAVI PATURU	HTRA
38.	20010185	MURUGESAN M	HTRA / Project Internal
39.	20010194	ARIRAJAN K A	HTRA
40.	20010205	MAHENDRAN T	HTRA / Internal
41.	20010206	PONNARASAN K	HTRA
42.	20010207	POTHI RAJ R	HTRA
43.	20010209	ANNAM ARUNKUMAR	HTRA
44.	20010211	DHANAPAL S	HTRA / Project
45.	20010213	JASPER S	External
46.	20010214	ASHISH KUMAR SINGH	HTRA
47.	20010229	VENKATESAPERUMAL E	Project / Internal
48.	20010260	MOHAMED NISHATH P	HTRA
49.	20010268	DEVARAJ G	HTRA
50.	20010272	ARUN SELVAKUMAR T	External
51.	20010275	S RAGAVAN	HTRA
52.	20010285	PRAHADEESWARAN M	External
53.	20010293	DANIEL DEVARAJ L	External
54.	20010306	DEIVA GANESH A	HTRA
55.	20010307	K SENTHIL KUMAR	External
56.	20010309	UJJWAL KUMAR DEY	HTRA
57.	20010314	ANTON KUMANAN S A	External
58.	20010318	SARAVANAN S	HTRA
59.	20010323	RAGHULNATH D	HTRA
60.	20010329	MANOJKUMAR	HTRA
61.	20010330	MANIKANDANBABU K	HTRA / Project
62.	20010331	NBVS R KARTHIK	HTRA
63.	20010332	MOHANASARAVANAN P S	HTRA
64.	20010340	AKILAN	NHTRA
65.	20010341	SHANKAR A	HTRA
66.	20010348	PACKIYARAJ A	HTRA
67.	20010352	SARATHKUMAR D	HTRA
68.	20010360	KIRAN RAJ S	HTRA
69.	20010363	KUMARAVEL P	HTRA / Project

70.	20010383	R.RAGA	HTRA
71.	20010388	BALIJA UPENDRA	HTRA / NHTRA
72.	20010397	JOGI NIKHIL GULABRAO	HTRA
73.	20010408	DINESH KUMAR P K	HTRA
74.	20010422	VIGNESH	External
75.	20010423	LALITH PRABU N	External
76.	20010425	NITHIN K	HTRA
77.	20010456	KUMARAVEL S	HTRA
78.	20010462	KANNAN M	HTRA
79.	20010470	BETHU SIVA TEJA	HTRA
80.	20010471	ARAVIND.RA	HTRA
81.	20010483	MOHANKUMAR.S	HTRA
82.	20010507	THOKACHICHU N RAVI KANTH	External
83.	20010508	K SHRAVAN KUMAR	External
84.	20010510	SOLAI PRAKASH V	HTRA
85.	20010516	MURUGESAN M	HTRA / Project / Internal
86.	20010526	PRAKASH A	HTRA
87.	20010530	SAKTHIVEL	External
88.	20010531	DINESHKUMAR P T	External
89.	20010534	PALANISAMY C	HTRA
90.	20010535	VIGNESH T	HTRA / Project / External
91.	20010543	YOGAANAND D	NHTRA
92.	20010547	CHANDRU J	External
93.	20010550	ARUN.T	NHTRA / External
94.	20010553	PUTTA RAMUDU	HTRA
95.	20010555	BOOPATHI G	HTRA
96.	20010561	VARUN KUMAR	HTRA
97.	20010564	BENNY THOMPSON E J	HTRA
98.	20010566	PARANDHAMAN B	HTRA
99.	20010572	DINESH KUMAR P K	HTRA

SYLLABUS FOR MECHANICAL ENGINEERING

Written test (Duration - 2 hours)

Part I – Basic Engineering Sciences - 50 marks - 1 hour (**Compulsory for all**)

Part II - 50 marks – 1 hour (Any one of the following Parts)

Part II A – Engineering Design

Part II B – Materials and Manufacturing Processes

Part II C – Thermal Engineering

Part II D – Production and Industrial Engineering

Part I – Basic Engineering Sciences (Common to all)

Engineering Mathematics: Fundamentals of Linear algebra, Calculus, Differential equations, Probability and Statistics, and Numerical methods.

Engineering Graphics: Plane curves, projection of lines, planes and solids, section and development of solids, and isometric projection.

Engineering Mechanics: Free body diagram, equilibrium of particles and rigid bodies, friction, centroid, virtual work, kinematics and dynamics of particles and of rigid bodies in plane motion.

Part II A – Engineering Design

Mechanics of materials: Theory of pure bending moment and torsion, deflection of beams, Euler theory of long columns, design of thin and thick pressure vessels, principal stress strain, combined bending and torsion, application of failure theories in design, design of mechanical components such as shafts, gears, cams and followers, design of mechanical joints and drives, application of fits and tolerances in design.

Kinematics and dynamics of machines and mechanisms: position-velocity-acceleration analysis, classification of robots and mechanisms, mapping and transformations in robotics, differential motion- Jacobian-trajectory analysis, design of robot mechanisms for various applications.

Part II B – Materials and Manufacturing Process

Engineering Materials: Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials.

Machining and Machine Tool Operations: Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, design of jigs and fixtures.

Metrology and Inspection: Limits, fits and tolerances; linear and angular measurements; comparators; gauge design; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly.

Part II C – Thermal Engineering

Heat-Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis.

Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; Zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Part II D – Production and Industrial Engineering

Linear programming, Nonlinear Programming, Dynamic Programming, Heuristics and metaheuristics Algorithms, Constrained programming, Demand Forecasting, Inventory policies, Facility layout, Analysis of Static Deterministic Inventory Models, Value of information and Bullwhip effect, Material Requirement planning, Lot sizing Techniques, Aggregate Production Planning, work-study and method study, Group technology and cellular manufacturing, flexible manufacturing systems, Just-In-Time and lean production, Agile Manufacturing, Simulation of manufacturing systems, Queuing models, Sequencing and Scheduling, Project Scheduling.

Instruction for Shortlisted candidates

- You are requested to report for Written Test cum Interview at 09.30 AM on 29-11-2019 (Friday) in Indian Institute of Information Technology Design and Manufacturing Kancheepuram located at Melakottaiyur, Vandalur-Kelambakkam Road, Chennai-600127.
- **You are requested to produce the following certificates in Original along with one set of self attested copy of certificates at the time of Interview for verification:**
 - Diploma, Degree Certificates or Provisional Certificates from the Competent Authority of University or Institute concerned. In case of candidates whose results are awaited, producing the marksheets / grade cards will be sufficient. However if selected, they have to produce the certificate mentioned for verification at the time of Admission.
 - All Mark Statements / Grade Cards of qualifying Examinations from SSLC onwards.
 - GATE Score Card / UGC / CSIR and Other fellowship award letter (as the case may be)
 - SC / ST / OBC Certificate, if applicable.
 - Sponsorship Letter, if applicable.
 - No Objection Certificate from the present employer, if applicable.
 - Printed Copy of Application generated through Online Registration.
- In case of discrepancy in the data provided online, you will not be permitted to attend Written Test / Interview.
- **No TA/DA will be paid for attending Exam and Interview for Ph.D programme.**
- Kindly confirm your participation for Written Test cum Interview by email to admissions@iiitdm.ac.in. The Written Test cum Interview cannot be postponed under any circumstances. The syllabus and other information are uploaded in our website: www.iiitdm.ac.in.
- In case of final selection, candidates are required to send their acceptance together with the fees for the first semester on or before 13-12-2019. Academic session for JAN-MAY 2020 semester will commence on 01-01-2020 onwards.