



**List of Candidates shortlisted for Interview to the PhD Programme in the
School of Electrical Sciences for the Autumn Semester of AY 2019-20**

Sr. No.	App. No.	Name of the Candidate
1	1007	PAYALI DAS
2	1011	BIPUL BORO
3	1016	SANKAR M
4	1020	GOVIND MISHRA
5	1032	VISHNU KUMAR MISHRA
6	1050	KRESHNAN DHIVEDI
7	1051	RAHUL NONIYA
8	1071	RAVI KUMAR RANJAN
9	1092	MANISH RISHI
10	1094	ANUBHAV PANDEY
11	1109	ASISH CHANDRAN
12	1115	RAMANUJ DEB
13	1119	BASANT PANDAGRE
14	1121	YUVRAJ DHANADE
15	1124	KOUSHIK SHIT
16	1141	SONAL PATIL
17	1145	SAURABH SAKALKALE
18	1154	DIVYA BHARATHI S
19	1163	GUNJAN KUMARI
20	1171	SNEHASHIS JHA
21	1184	AKSHAY JAGAJAMPI
22	1209	LUXMI KANT VISHWAKARMA
23	1237	NAGAMALLESWARARAO K
24	1243	HARI SHANKAR SHARMA
25	1254	RONGALI GOVINDA
26	1282	ROHIT KUMAR SINGH
27	1283	SUPRIYA KAMBLE
28	1284	SUDIPTA PAL
29	1285	VIDYA ABDULPUR
30	1347	ARUN KUMAR
31	1361	RAVI KUMAR SINHA
32	1371	HIRAMANI SHUKLA
33	1378	MOHAMMAD ASHRAF
34	1389	MOHAMMAD UMER MIR
35	1398	SRIJIB BANERJEE
36	1429	PRIYANKA KAMBOJ
37	1432	JEHAN N
38	1435	KATRU VIKASH VARMA
39	1444	RAHUL BISHT
40	1462	DIPANJAN DEY SARKAR

41	1478	UDHAYAKUMAR S
42	1480	RADHIKA VAZE
43	1492	ARCHANA PATIL
44	1510	ALOKENDU MAZUMDER
45	1555	LEKSHMI P
46	1564	GEETIKA SAHU
47	1566	SWAGAT KUMAR PANDA
48	1587	HIMADRI NIRJHAR MANDAL
49	1593	PRASUNIKA KHARE
50	1607	MUKUL ANAND
51	1631	VARUN JOHN
52	1638	BHARATH KASOJU
53	1648	JYOTI PURABIYA
54	1661	DEEPA KERUTAGI
55	1668	SHUBHAM YADAV
56	1677	VINOD KONNUR
57	1678	DIVYA KHANURE
58	1685	NEHA SINGH
59	1687	MD MOFIZUL ISLAM
60	1694	NITESH KUMAR
61	1713	NIKITA AGWANKAR
62	1723	BIBHUDATTA MISHRA
63	1727	ARNAB SOM
64	1749	JYOTI TOMAR
65	1753	PALASH SHENDRE
66	1764	NITESH NARWADE
67	1769	GURPINDER SINGH
68	1776	GOYAL AWAGAN
69	1781	GAJAWADA PRANAY KUMAR
70	1786	VEGIREDDY GOWTHAM
71	1790	MAMATA DEBBARMA
72	1827	ATANU CHAUDHURY
73	1829	KRANTHI PANUGANTI
74	1846	PRIYA RATHORE
75	1860	MATAM BHARANI KUMAR
76	1875	SAIKUMAR BAIRABATHINA
77	1877	PRASHANT KUMAR
78	1890	MAYANK ARORA
79	1898	SHIV KUMAR
80	1904	KABILAN K
81	1907	DEVI RUPA SAHA
82	1910	ADITYA TIWARI
83	1913	HARI KRISHNA G
84	1920	SUBHENDU GHOSH
85	1923	SASWATI PARAMITA
86	1929	KANCHAN JHA
87	1936	RAHUL KODAG
88	1951	SUDHIR KUMAR NIRALA
89	1961	AYUSHI SHARMA
90	1969	RUCHI SHARMA
91	1984	CHANDANA B N
92	1991	RANDHIR KUMAR SAH
93	2032	BOMMASANI MADHU BABU
94	2043	GEETIKA SRIVASTAVA

95	2055	SHASHIDHAR M
96	2066	SANJEEVA RAO BHIMADOLU
97	2067	AKHILESH NAIK
98	2070	TARNI JOSHI
99	2077	RAHUL DEV
100	2083	MAYANK SHARMA
101	2095	CHANDAN KUMAR
102	2098	TUSHAR NISTANE
103	2099	SUCHISMITA PATEL
104	2102	MAHESH PARIHAR
105	2115	ABHILASH SAKHARE
106	2118	MANORANJAN MANTRI
107	2119	PALLE PRASANTH KUMAR
108	2122	TAMIZHVANAN C
109	2129	ASHIKA NAIK
110	2134	ARJUN KUMAR
111	2145	MUTHUSELVAN M MARIAPPAN
112	2152	SHAILZA KAUNDAL
113	2154	SAPNA SINGH
114	2163	BHUVANENDRA SINGH
115	2173	SUBHRANIL DAS
116	2174	ASHISH MESHRAM
117	2182	VIDHYA SAGAR D
118	2186	PRATIK ARYA
119	2187	TAMMINENI RAVINDRA
120	2188	VIKASH KUMAR VERMA
121	2191	LAL BABU YADAV
122	2196	SANJAY S
123	2197	ABHAY KUMAR SINGH
124	2214	MINAKSHMI SHAW
125	2217	SAMEER SINGH
126	2221	VIVEK GUPTA
127	2243	RUKSANA SIDDIQUE
128	2245	PRIYA KAUSHAL
129	2255	DINESH BHADANE
130	2261	NIRAKAR NAYAK
131	2266	NARASIMHA RAO PVL
132	2290	NISHANT SINGH
133	2291	NAVEEN KUMAR POTHAPAKULA
134	2293	DEEPU E KOSHY
135	2302	CHITTA SUBBAREDDY
136	2324	ISAQ SHIKALGAR
137	2342	SNEHA SINGH
138	2349	AMIT KR PANDIT
139	2352	CHARAN SEKHAR MAKULA
140	2358	ASSHUTOSH UPADHYAY
141	2360	KONA AMARENDRA
142	2381	ROHAN BURYE
143	2383	RAVI PURTY
144	2385	PRAKASH PRATIK
145	2386	TANMAY SHUKLA
146	2392	GAURAV KUMAR
147	2398	NEETU KUMARI
148	2404	KRISHNA CHAITANYA MALLULA

149	2407	RUPESH YADAV
150	2408	ASHISH KUMAR SHAKYA
151	2411	PRATAP KUMAR KOPPOLU
152	2412	ABHISHEK HARIT
153	2424	SHAIK MOHAMMED WASEEM
154	2425	AFROZ FATIMA
155	2441	RUPESH THOMBRE
156	2443	SUBHRANSHU SEKHAR PATI
157	2447	RAVI KUMAR
158	2450	GOVIND S
159	2476	ADITI RANI
160	2477	SURENDER REDDY THELERU
161	2483	SNEHA SINGH
162	2485	RAGHWENDRA KISHORE SINGH
163	2521	SUSHMITA GHOSH
164	2526	AYUSH KUMAR SINGH
165	2530	ANUSHKA GUPTA
166	2542	SREE RAMA AMRUTHA LAHARI
167	2546	ADEPU VIVEK
168	2551	RAMSAKAL KRISHAN
169	2577	ANJU SURENDRAN NAIR
170	2580	DADI SITA SIVA
171	2581	GIRIRAJ PATIDAR
172	2582	SATYA KRISHNA MURTHY K
173	2583	PRASHANT DWIVEDY
174	2586	DISHA NAIK
175	2596	GANJI MAHESH
176	2599	SACHIN RAHI
177	2610	OMKAR SINGH
178	2616	PRIYANKA DUSHING
179	2633	SUBHASISH PANDAV
180	2637	RAGUL DURIASAMY
181	2660	SIVAKUMAR PASUPULETI
182	2670	SWAPNENDU NARAYAN GHOSH
183	2680	ANJU .
184	2690	PRAFUL KUMBHARE
185	2700	PIYUSH KUMAR SINGH
186	2711	CHIRANTAN GHOSH
187	2726	SAURABH KUMAR
188	2735	MOHAMMAD MUKHEEM BASHA
189	2740	GIRIJASHANKAR DIXIT
190	2763	RAVI KUMAR SINHA
191	2766	CHANDAN BISWAS
192	2770	PATURI SATISH KUMAR
193	2772	GUGULOTH RAMOJI NAIK
194	2785	RAJPUT JYOTI PRAKASH GAUTAM SINGH
195	2797	SAKSHI RAJ
196	2803	INDU CHANDRAN
197	2812	DAYANAND DHONGADE
198	2821	TALLURI VINEEL JESSY

Mode of Selection

There will be TWO rounds of selection. In the first round, there will be a written exam which will be followed by an interview for the candidates qualifying in the written test.

Dates of the Ph.D. written test and interview: **17th and 18th May 2019.**

Candidates are to confirm their candidature for appearing in the written test on or before 15th May by filling out this google form <https://docs.google.com/forms/d/e/1FAIpQLScF5QdF2DOusbK2h-GBuZyKQwO2dh4EGROaR-oWkLMGbK71gw/viewform>

Pattern of Examination:

The written test will comprise Part-A and Part-B. The test is of one and a half hours' duration. Part-A is common to all and Part-B is specialization specific.

Syllabus for Part-A:

Signals and Systems, Electromagnetics, Digital Electronics, Circuit Theory, Operational Amplifiers, and Spatial Ability (Aptitude)

Syllabus for Part-B:

- (a) Communication and Signal Processing
 1. LTI Systems- Impulse response, frequency response, convolution, correlation.
 2. Analysis of LTI Systems using Continuous and Discrete time Fourier transform, Z transform, Laplace transform.
 3. Sampling of low pass signals, Nyquist Theorem, Aliasing, Anti-aliasing filter.
 4. Probability and Random Variables – Single random variable, two random variables, probability density function (PDF), cumulative density function (CDF), joint density functions, marginal density functions, transformation of random variables, moment generating functions. Gaussian random process.
 5. Random Process – stationarity, wide-sense stationarity, autocorrelation, power spectral density, joint power spectral densities.
 6. Analog modulation - AM - DSB full carrier, DSB-SC, SSB, VSB, FM - Narrowband and wideband FM, bandwidth, Armstrong method. Noise performance of AM and FM.

- (b) VLSI and Micro engineering:
 1. Electronic Devices and Modelling - Energy bands semiconductors; drift and diffusion currents, mobility; Generation and recombination of carriers; diodes, BJT, MOS capacitor, MOSFETs and device models.
 2. Digital circuits - Logic gates and their static CMOS implementations, combinational and Sequential circuits: latches, flip-flops, registers and counters.
 3. Analog and Mixed-signal Circuits: Small signal equivalent circuits of diodes and MOSFETs; Simple diode circuits, current mirrors, biasing circuits, MOSFET amplifiers, Opamps: frequency compensation and stability, comparators, active filters (RC and Switched Capacitor), comparators, data converters: DACs and ADCs.

- (c) Power Engineering:
 1. Electromagnetics- Electrostatics, magneto statics, boundary conditions.
 2. Electrical Machines- Magnetic circuits, Transformers, Rotating machines, DC motors: construction and operation, AC machines: Induction motor, Synchronous motor and generator.

3. Power Electronics – Switching circuits, Non-isolated DC/DC converters, Phase controlled Rectifiers, Single phase voltage source inverters.
4. Power System- Swing equation, Fault analysis, Transients in power systems, outdoor insulation, High voltage techniques for power systems.
5. Control systems- Modeling of dynamical system: in time domain and frequency domain, Time domain evaluation of systems with standard inputs, Stability analysis: Routh method, Root locus analysis, Bode plots.

Reporting time and Venue

Time of reporting: 8:30 A.M. (sharp) to Admin block, IIT Goa.

Venue of the written test: Will be informed at the Admin block.

Assistant Registrar
Academic Programmes

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