National Institute of Technology, Tiruchirappalli - 620 015, Tamil Nadu, India

Temporary faculty -July 2016 selection shortlisted candidates for Written Test & Instructions

Instruction to the candidates

1. Candidates shortlisted for Written Test are given in **ANNEXURE-I**
Date, time and venue are as follows:

Date: 10-8-2016 (Wednesday) Time: 10.00 AM to 11.00AM

Venue: IT Center (CSE Building) – Second Floor, NIT, Tiruchirappalli

Candidates are requested to be present for the written examination half-an-hour before commencement of the written test.

2. The syllabus for the written test of the concerned department is available in **ANNEXURE-II**.

3. Candidates are requested to produce a valid Photo ID proof (Driving License, Aadhar card, Pass-port, PAN Card, Voters ID card) for verification at the time of written test and submit SHEET (see **ANNEXURE-III**) at time of Written Test.

4. Candidates shortlisted based on the Written Test will be called for interview and the interview schedule will be displayed as a separate notice shortly in www.nitt.edu

5. The shortlisted candidates for interview will be displayed in test venue itself, department wise, by **1.00 PM on 10-8-2016** and ***also*** in the NIT website www.nitt.edu

6. All the shortlisted candidates for the interview have to appear before a selection committee and also have to give a presentation on any topic of their interest in the respective area. (Only Chalk & Board)

7. Candidates should bring all the certificates in original for verification at the time of interview and present at **Senate Room, Administrative building NIT, Tiruchirappalli, Tamilnadu, half an hour before the interview schedule.**

8. Candidates should submit one set of attested copies of relevant documents such as educational qualification, experience certificates, community certificate, etc. at the time of Interview. Candidates under OBC category should bring valid OBC certificate issued by competent authority with in a year.

9. No TA/DA will be paid for attending the written test and interview.

10. The request for change of date and time will not be entertained.

11. The invitation is a mere request to appear for written test/interview and does not assure that he/she will be recommended or selected for the temporary post.

12. Reservation policy as per Government of India is followed.

13. This temporary appointment is initially for a period of one semester.

14. Candidates have to make their own arrangement for their accommodation.

15. Canvassing in any form will disqualify the candidature.

16. The decision of the selection committee of the institute is final.

ANNEXURE-I

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI – 620 015

TEMPORARY FACULTY – JULY 2016

CANDIDATES SHORT LISTED FOR WRITTEN TEST (Department wise)

DEPARTMENT OF ARCHITECTURE

S.No	Application No.	NAME
1	TF/2016/Arch/002	T.Niveditha
2	TF/2016/Arch/003	R.Kaaviya
3	TF/2016/Arch/004	L.Vinu pandyan
4	TF/2016/Arch/005	P.Dhanaseelan

DEPARTMENT OF CIVIL ENGINEERING

S.No	Application No.	NAME
1	TF/2016/CIVIL/001	N. Helen Sheeba
2	TF/2016/CIVIL/002	S. Mahalingam
3	TF/2016/CIVIL/003	T.T. Ajith Kumar
4	TF/2016/CIVIL/005	V. Amaljith
5	TF/2016/CIVIL/006	L. Sasikumar
6	TF/2016/CIVIL/007	T.G. Sruthy
7	TF/2016/CIVIL/008	B. Jeyanth
8	TF/2016/CIVIL/009	P. John Peter
9	TF/2016/CIVIL/010	M. Amutha
10	TF/2016/CIVIL/011	V. Jaya Sheela
11	TF/2016/CIVIL/012	S. Athibaranan
12	TF/2016/CIVIL/013	T. Thivya
13	TF/2016/CIVIL/014	S. Mary Shamini
14	TF/2016/CIVIL/015	Basil Jaimon
15	TF/2016/CIVIL/016	P. Andavar
16	TF/2016/CIVIL/017	G. Jai Ganesh
17	TF/2016/CIVIL/018	N. Saradha Devi
18	TF/2016/CIVIL/019	M. Anand

19	TF/2016/CIVIL/020	S. Vigneshwaran
20	TF/2016/CIVIL/021	M. Sabarinath
21	TF/2016/CIVIL/022	M. Shobana Rani
22	TF/2016/CIVIL/023	L. Vijay Anand
23	TF/2016/CIVIL/024	S. Raja Subramaniam
24	TF/2016/CIVIL/025	G. Divya
25	TF/2016/CIVIL/027	R. Gurulakshmi
26	TF/2016/CIVIL/028	V. Kalpana
27	TF/2016/CIVIL/029	M. Prabu
28	TF/2016/CIVIL/030	N. Ganamanikarnika
29	TF/2016/CIVIL/031	C. Peter Chandran
30	TF/2016/CIVIL/032	B. Dinesh Kumar
31	TF/2016/CIVIL/033	S. Ashok Manikandan
32	TF/2016/CIVIL/034	M.V. Mohammed Haneef
33	TF/2016/CIVIL/035	K. Jayachandran
34	TF/2016/CIVIL/036	B. Sunantha
35	TF/2016/CIVIL/037	P.T. Usharani
36	TF/2016/CIVIL/038	S. Prakash
37	TF/2016/CIVIL/039	V. Juliyet
38	TF/2016/CIVIL/040	Jittin Varghese
39	TF/2016/CIVIL/041	Nivya Basheer
40	TF/2016/CIVIL/042	D. Indu
41	TF/2016/CIVIL/043	R. Vinod Kumar

DEPARTMENT OF CHEMICAL ENGINEERING

S.No	Application No.	NAME
1	TF/2016/CHL/001	Fedal Castro
2	TF/2016/CHL/002	S. Senthil Kumar
3	TF/2016/CHL/003	Shinde Vijay Maruti
4	TF/2016/CHL/004	B.Vivekanandan
5	TF/2016/CHL/005	R.Malini
6	TF/2016/CHL/006	P.C. Sourabhya
7	TF/2016/CHL/007	M.Ilayaraja
8	TF/2016/CHL/008	M.A.Shabiimam
9	TF/2016/CHL/009	J.Ezhil
10	TF/2016/CHL/010	P.Asaithambi
11	TF/2016/CHL/011	A.Subathira
12	TF/2016/CHL/012	N.Sakthipriya

DEPARTMENT OF ENERGY AND ENVIRONMENT

S.No	Application No.	NAME
1	TF/2016/EE/001	S. Ramasamy
2	TF/2016/EE/002	P. Selvakumaran
3	TF/2016/EE/004	Fedal Castro
4	TF/2016/EE/009	R. Poonguzhali
5	TF/2016/EE/010	R. Malini
6	TF/2016/EE/014	T. Sharon Joenita
7	TF/2016/EE/015	C. Naveen
8	TF/2016/EE/017	R.Sowmya
9	TF/2016/EE/018	S.I. Sridhar
10	TF/2016/EE/022	J. Indhumathi
11	TF/2016/EE/023	A. Narendran

12	TF/2016/EE/024	B. Saratbabu
13	TF/2016/EE/025	P. Kalidoss
14	TF/2016/EE/026	K.P. Bindhya
15	TF/2016/EE/027	R. Ramesh
16	TF/2016/EE/030	M. Jaya Chitra
17	TF/2016/EE/032	P. Sobana Priya
18	TF/2016/EE/035	R. Ilaiyaraja
19	TF/2016/EE/037	Chatragadda Priyanka
20	TF/2016/EE/038	A. Sacithra

DEPARTMENT OF CHEMISTRY

S.No	Application No.	NAME
1	TF/2016/CHY/002	V.Kannan
2	TF/2016/CHY/003	V.L. Chandraboss
3	TF/2016/CHY/006	K. Vasantham
4	TF/2016/CHY/008	K.Gopalsamy
5	TF/2016/CHY/010	Balaji Ramanujam
6	TF/2016/CHY/012	Pavan Kumar Mandali
7	TF/2016/CHY/017	V.Ramesh
8	TF/2016/CHY/018	Sabarinathan Rangasamy
9	TF/2016/CHY/019	M.Manjunathan
10	TF/2016/CHY/020	M.Revathi
11	TF/2016/CHY/025	M.Sivaraman
12	TF/2016/CHY/026	A.Satheshkumar

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

S.No	Application No.	NAME
1	TF/2016/CSE/001	M.S. Vijay kumar
2	TF/2016/CSE/002	K.Karthik
3	TF/2016/CSE/003	K.Abinaya

4	TF/2016/CSE/004	R. Suganya
5	TF/2016/CSE/005	R. Bhuvanya
6	TF/2016/CSE/006	V. Sasikala
7	TF/2016/CSE/007	G. Divya
8	TF/2016/CA/008	E. Renuga
9	TF/2016/CSE/009	S.Priyanka
10	TF/2016/CSE/010	T. Siron Anita Susan
11	TF/2016/CSE/011	M.G. Karthikeyan
12	TF/2016/CSE/012	J.Jabez Christopher
13	TF/2016/CSE/013	M. Jeyashree
14	TF/2016/CSE/014	M.Anuradha
15	TF/2016/CSE/015	T.Veni
16	TF/2016/CSE/016	K.Bakiya
17	TF/2016/CSE/017	R. Jenice Aroma
18	TF/2016/CSE/018	C.Gayathri
19	TF/2016/CSE/019	Ida Hector Ruby Lionel
20	TF/2016/CSE/020	R.Sasikala
21	TF/2016/CA/021	V.Uma sankari
22	TF/2016/CSE/022	M.Vivek Anand
23	TF/2016/CSE/023	A.Joselin Amala Retchal
24	TF/2016/CSE/024	J.Kiruthika
25	TF/2016/CSE/025	S.Tharaniya Devi
26	TF/2016/CSE/026	Nimisha Joy
27	TF/2016/CSE/027	M.J. Soumiya
28	TF/2016/CSE/028	K.Maria Jovanna
29	TF/2016/CSE/029	A.Sumathi
30	TF/2016/CSE/030	T.Divya Prabha
31	TF/2016/CSE/031	J.Sivasangari

32	TF/2016/CSE/032	S.Ezhilarasi
33	TF/2016/CSE/033	M.Gowri Shankar
34	TF/2016/CSE/034	RM. Raja Rajeshwari
35	TF/2016/CSE/035	S.Fathima
36	TF/2016/CSE/036	K.Pradeepa
37	TF/2016/CSE/038	A.Ragini
38	TF/2016/CSE/039	R.Logapriya
39	TF/2016/CSE/041	G.Dineshnath
40	TF/2016/CSE/042	R.Vinodharasi
41	TF/2016/CSE/043	J.Jasmine Alice Manonmani
42	TF/2016/CSE/044	M.Ramprasath
43	TF/2016/CSE/045	Anu priya
44	TF/2016/CSE/046	P.Balasubramanian
45	TF/2016/CSE/047	M.Rajashanthi
46	TF/2016/CSE/048	D.Sowbakya
47	TF/2016/CSE/049	J.Nandhini
48	TF/2016/CSE/050	Arun Kishore Aboorvasamy
49	TF/2016/CSE/051	S.Gilbert Nancy
50	TF/2016/CSE/052	R.Siranjeevi
51	TF/2016/CSE/053	S.Deiva Nesam Hannah
52	TF/2016/CSE/054	J.Chandra Priya
53	TF/2016/CSE/055	M.Valaramathi
54	TF/2016/CSE/056	N.Aarthee
55	TF/2016/CSE/059	S.Hemamalini
56	TF/2016/CSE/061	V.Anjali
57	TF/2016/CSE/062	M.Shanmuga Priya
58	TF/2016/CSE/063	V.Sathish Kumar
59	TF/2016/CSE/064	A.R. Rajeswari
60	TF/2016/CSE/065	V.Dharman

61	TF/2016/CSE/066	S.Brindha
62	TF/2016/CSE/068	Karunakaran Hariharan
63	TF/2016/CSE/069	M.Sathya
64	TF/2016/CSE/071	S.Suganya

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.No	Application No.	NAME
1	TF/2016/ECE/001	M. Shanmuga Priya
2	TF/2016/ECE/002	S. Sankar Ganesh
3	TF/2016/ECE/003	K. Nivetha
4	TF/2016/ECE/004	S. Vishwaja
5	TF/2016/ECE/005	G. Mohanraj
6	TF/2016/ECE/006	G. Guru Vendhan
7	TF/2016/ECE/007	S. Maria Reeta
8	TF/2016/ECE/008	M. Rama
9	TF/2016/ECE/010	J. Vinothini
10	TF/2016/ECE/011	S. Durgha Arthee
11	TF/2016/ECE/012	P. Sakthi Vel
12	TF/2016/ECE/013	R. Raghavi
13	TF/2016/ECE/014	Lija Arun
14	TF/2016/ECE/015	K. Sangeetha
15	TF/2016/ECE/016	K. Akilandeswari
16	TF/2016/ECE/017	T. Sugumari
17	TF/2016/ECE/018	M. Deepa
18	TF/2016/ECE/019	R. Brindha
19	TF/2016/ECE/021	N.G. Naredramudra
20	TF/2016/ECE/022	M. Brinda
21	TF/2016/ECE/023	M. Sushmidha
22	TF/2016/ECE/024	P. Praveena
23	TF/2016/ECE/025	V. Nandhini

24	TF/2016/ECE/026	J.S. Sajan Raj
25	TF/2016/ECE/027	A.M. Revathi
26	TF/2016/ECE/028	P. Tharani
27	TF/2016/ECE/029	A. Rajesh Kumar
28	TF/2016/ECE/030	P. Deepthi
29	TF/2016/ECE/031	P. Syed Ali Fathima Aasia
30	TF/2016/ECE/032	K. Soundarya
31	TF/2016/ECE/033	P. Prabhu
32	TF/2016/ECE/034	B. Siva Nandini
33	TF/2016/ECE/035	D. Parthiban
34	TF/2016/ECE/036	K. Praveen Kumar
35	TF/2016/ECE/037	R. Ramya
36	TF/2016/ECE/038	R. Lakshmi Priya
37	TF/2016/ECE/039	Prasanna
38	TF/2016/ECE/040	G. Sivapriya
39	TF/2016/ECE/042	S. Jayasri
40	TF/2016/ECE/043	K. Priyadarsshini
41	TF/2016/ECE/044	M. Alarmel Mangai
42	TF/2016/ECE/045	S. Karthikeyan
43	TF/2016/ECE/046	S. Pasavalli
44	TF/2016/ECE/047	P. Sweety Preethi
45	TF/2016/ECE/048	I.C. Shilpa
46	TF/2016/ECE/049	N. Umapathi
47	TF/2016/ECE/050	Parvathy Jayaprakash
48	TF/2016/ECE/051	M. Karthik
49	TF/2016/ECE/052	S. Ramkumar
50	TF/2016/ECE/053	S. Sathish Babu
51	TF/2016/ECE/054	S. Valarmathi
52	TF/2016/ECE/056	S. Solairaj
53	TF/2016/ECE/057	B. Nishanthi
54	TF/2016/ECE/058	M. Rohini
55	TF/2016/ECE/059	R. Rashya

56	TF/2016/ECE/060	D. Arockia Anisha
57	TF/2016/ECE/061	N. Sweatha
58	TF/2016/ECE/062	K.C. Raja Rajeshwari
59	TF/2016/ECE/063	Mansoor Alikhan
60	TF/2016/ECE/064	Liya Johnson
61	TF/2016/ECE/066	M. Gayathri Devi
62	TF/2016/ECE/067	J. Gowri Shankar
63	TF/2016/ECE/068	R. Vijayaragavan
64	TF/2016/ECE/069	A. Anitha Rose
65	TF/2016/ECE/070	A. Dhivya
66	TF/2016/ECE/071	D. Deepika
67	TF/2016/ECE/072	V. Priya
68	TF/2016/ECE/073	R. Esakki Ponniah
69	TF/2016/ECE/075	V. Banupriya
70	TF/2016/ECE/076	G. Jansi Rani
71	TF/2016/ECE/077	Divya Mohan
72	TF/2016/ECE/078	T. Selvamuthukumar
73	TF/2016/ECE/080	R. Ranjith
74	TF/2016/ECE/081	P. Anitha
75	TF/2016/ECE/082	S. Murugesan
76	TF/2016/ECE/083	V. Kavitha
77	TF/2016/ECE/084	N. Sugan
78	TF/2016/ECE/085	N. Dhiviya
79	TF/2016/ECE/087	R. Meenakshi
80	TF/2016/ECE/088	Gunnery Srinath
81	TF/2016/ECE/090	R. Rakhi Chandran
82	TF/2016/ECE/091	K. Anitha
83	TF/2016/ECE/092	K. Sasikala
84	TF/2016/ECE/093	K. Lavanya
85	TF/2016/ECE/094	B. Nanthini
86	TF/2016/ECE/095	N. Tamilarasan

87	TF/2016/ECE/096	P. Vanmathi
88	TF/2016/ECE/097	A. Kasthuri
89	TF/2016/ECE/098	Jesu Silvancy
90	TF/2016/ECE/099	M. Suba Pradha
91	TF/2016/ECE/100	B.I.S. Ronica
92	TF/2016/ECE/101	P. Vimalkumar
93	TF/2016/ECE/102	M. Siva Sankari
94	TF/2016/ECE/103	M. Azees
95	TF/2016/ECE/105	M. Sathyavathy
96	TF/2016/ECE/107	Y. Mohila
97	TF/2016/ECE/108	L. Ramesh
98	TF/2016/ECE/109	S. Vinothini
99	TF/2016/ECE/110	S.L. Bhagavathi
100	TF/2016/ECE/111	N. Priscilla Vilma Mandrathi
101	TF/2016/ECE/112	R. Monisha
102	TF/2016/ECE/113	R. Yamini
103	TF/2016/ECE/114	R. Anand
104	TF/2016/ECE/115	V. Srinivasan
105	TF/2016/ECE/116	T. Sunitha Biji
106	TF/2016/ECE/117	S. Suganthi
107	TF/2016/ECE/118	J. Archana
108	TF/2016/ECE/119	R. Lalithambika
109	TF/2016/ECE/120	R. Anitha
110	TF/2016/ECE/121	K.G. Suhirdham
111	TF/2016/ECE/122	A. Dhivya
112	TF/2016/ECE/123	N. Thamizhamuthuan
113	TF/2016/ECE/125	Saivam Murugan
114	TF/2016/ECE/126	F. Adline Anila Francis
115	TF/2016/ECE/127	N. Ambika
116	TF/2016/ECE/128	Shantha Natarajan
117	TF/2016/ECE/129	S. Sudharson

118	TF/2016/ECE/130	K. Aiswarya
119	TF/2016/ECE/131	T. Suguna
120	TF/2016/ECE/132	T. Kamatchi
121	TF/2016/ECE/133	D. Muthulakshmi
122	TF/2016/ECE/134	M. Kalaiarasan
123	TF/2016/ECE/135	V. Saravanan
124	TF/2016/ECE/136	P. Sharmila
125	TF/2016/ECE/137	P. Arun Kumar
126	TF/2016/ECE/138	M. Monika
127	TF/2016/ECE/139	K. Thamizhazhakan
128	TF/2016/ECE/140	G. Rajarajeswari
129	TF/2016/ECE/141	Preethi
130	TF/2016/ECE/142	P. Sukanya Devi
131	TF/2016/ECE/143	J. Kezhiah
132	TF/2016/ECE/145	P. Angela Gladys
133	TF/2016/ECE/146	R. Kanimozhi
134	TF/2016/ECE/147	A. Anjali
135	TF/2016/ECE/149	J. Sree Sankar
136	TF/2016/ECE/150	E. Malathy
137	TF/2016/ECE/151	Bala Thimmaiah Nakka
138	TF/2016/ECE/152	P. Bhuvaneshwari

DEPARTMENT OF ELECTRICALS AND ELECTRONICS ENGINEERING

S.No	Application No.	NAME
1	TF/2016/EEE/001	K. Bharathi Kannan
2	TF/2016/EEE/003	R. Elakkia
3	TF/2016/EEE/005	M. Indhuja
4	TF/2016/EEE/006	M. Ezhill
5	TF/2016/EEE/007	A. Dinakaran
6	TF/2016/EEE/008	S. Sakthivel
7	TF/2016/EEE/011	R. Sivasankari
8	TF/2016/EEE/012	B. Annaselvaraj
9	TF/2016/EEE/013	M. Verginiya Mary

10	TF/2016/EEE/014	R.S. Priya Dharshini
11	TF/2016/EEE/015	Jerlina P Malhija
12	TF/2016/EEE/016	T. Vijayseshadri
13	TF/2016/EEE/017	Patil Nagarjuna
14	TF/2016/EEE/019	R. Narmadha
15	TF/2016/EEE/020	D. Gomathy
16	TF/2016/EEE/021	R.M. Brisilla
17	TF/2016/EEE/022	S. Nithya Kalyani
18	TF/2016/EEE/023	S. Yasmin Taj
19	TF/2016/EEE/024	K. Dileep
20	TF/2016/EEE/025	M. Bhuvaneswari
21	TF/2016/EEE/026	K. Sasirekha
22	TF/2016/EEE/027	T. Kesavan
23	TF/2016/EEE/028	S. Joseph Sam Immanvel
24	TF/2016/EEE/029	G. Kanimozhi
25	TF/2016/EEE/030	T. Arun Sankar
26	TF/2016/EEE/031	A. Bharathi Sankar
27	TF/2016/EEE/033	N. Nandini
28	TF/2016/EEE/034	S. Mukesh Muthu
29	TF/2016/EEE/036	Kethavath Ragavendra Naik
30	TF/2016/EEE/037	A.M. Vishnuvardhan
31	TF/2016/EEE/038	J. Monisha
32	TF/2016/EEE/039	T. Sathiyaraj
33	TF/2016/EEE/040	S. Shiny Mol
34	TF/2016/EEE/042	M. Sujikannan
35	TF/2016/EEE/043	K. Sangeetha
36	TF/2016/EEE/044	V. Nayanar
37	TF/2016/EEE/045	K. Sujita Kumar Acharya
38	TF/2016/EEE/046	T. Suganthi
39	TF/2016/EEE/047	Koneti Sandeep

40	TF/2016/EEE/048	R. Parthasarathy
41	TF/2016/EEE/049	R. Arun Prakash
42	TF/2016/EEE/050	S. Marlin
43	TF/2016/EEE/051	N. Rishi
44	TF/2016/EEE/052	S. Arun
45	TF/2016/EEE/054	P.M. Arumugapandi
46	TF/2016/EEE/056	K. Salai Ghavanamani
47	TF/2016/EEE/058	K.R. Sasitharan
48	TF/2016/EEE/060	P. Pounraj
49	TF/2016/EEE/063	T. Karuppa Samy
50	TF/2016/EEE/064	R. Priyadharsini
51	TF/2016/EEE/065	Aiswarya Santha Kumar
52	TF/2016/EEE/066	M. Premkumar
53	TF/2016/EEE/067	D. Karthikai Kannan
54	TF/2016/EEE/068	Girubha
55	TF/2016/EEE/069	L. Akila
56	TF/2016/EEE/070	Gotla Narasimhulu
57	TF/2016/EEE/072	S. Chitra
58	TF/2016/EEE/073	G. Sivapriya
59	TF/2016/EEE/074	R. Priyadarsini
60	TF/2016/EEE/077	B. Saratbabu
61	TF/2016/EEE/078	J. Mohan
62	TF/2016/EEE/079	Deenadhayalan
63	TF/2016/EEE/080	A. Kalirasu
64	TF/2016/EEE/081	R. Divya
65	TF/2016/EEE/082	Bandikolla Vinod Kumar
66	TF/2016/EEE/083	Bokkisam Hanumantha Rao
67	TF/2016/EEE/084	C. Purushotham Reddy
68	TF/2016/EEE/085	Venkateswara Rao Paritala

69	TF/2016/EEE/086	Nandaraja H Shadlageri
70	TF/2016/EEE/087	M. Sivakumar

DEPARTMENT OF HUMANITIES – ECONOMICS

S.No	Application No.	NAME
1	TF/2016/Eco/001	S.Yoga
2	TF/2016/Eco/002	R. Ganesasubramanian
3	TF/2016/Eco/003	S.Siva gurunathan
4	TF/2016/Eco/004	S.Sridhar
5	TF/2016/Eco/005	P.Periyasamy
6	TF/2016/Eco/006	A.Manivel

DEPARTMENT OF HUMANITIES – ENGLISH

S.No	Application No.	NAME
1	TF/2016/Eng/001	Jaya Shrivastava
2	TF/2016/Eng/002	J.Muthulekha
3	TF/2016/Eng/003	P. Athma Dharshana
4	TF/2016/Eng/004	V.Saranya
5	TF/2016/Eng/006	C.T.Cyril
6	TF/2016/Eng/007	S.Saranya
7	TF/2016/Eng/008	J.Priya

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

S.No	Application No.	NAME
1	TF/2016/ICE/001	M. Shanmuga Priya
2	TF/2016/ICE/002	B. Abinaya
3	TF/2016/ICE/003	Ravi Kumar

4	TF/2016/ICE/004	E.K. Midhun
5	TF/2016/ICE/005	K. Sivakumar
6	TF/2016/ICE/006	P. Thangaganapthy
7	TF/2016/ICE/008	E. Sathish
8	TF/2016/ICE/009	S. Murugesan
9	TF/2016/ICE/011	M. Sowmya
10	TF/2016/ICE/012	Hasan Althaf
11	TF/2016/ICE/013	A. Arul Kumar
12	TF/2016/ICE/014	V. Madhumathi
13	TF/2016/ICE/016	S. Vinothini
14	TF/2016/ICE/017	Mila Mary Job
15	TF/2016/ICE/018	D. Mohamed Azaruddin

DEPARTMENT OF MECHANICAL ENGINEERING

S.No	Application No.	NAME
1	TF/2016/Mech/001	S.Tamiselvan
2	TF/2016/Mech/002	S .Nithin
3	TF/2016/Mech/003	S Ramasamy
4	TF/2016/Mech/005	K.Kanaga Sundara Satishwaran
5	TF/2016/Mech/006	K.Rameshkumar
6	TF/2016/Mech/008	T.Jeevananthan
7	TF/2016/Mech/009	A.Prabu
8	TF/2016/Mech/010	Kattera sai krishna
9	TF/2016/Mech/011	Nallamothu Siva teja
10	TF/2016/Mech/012	Y.R. Kishore
11	TF/2016/Mech/014	S.Rajeswaran
12	TF/2016/Mech/015	R. Chandar Raja
13	TF/2016/Mech/016	Shahul Hameed Valiyapeediyekkal
14	TF/2016/Mech/017	R.S. Shiva Ranjani
15	TF/2016/Mech/018	N.Prabhu

16	TF/2016/Mech/019	S.Rajesh
17	TF/2016/Mech/020	A.Jaganathan
18	TF/2016/Mech/021	R.Prabhakaran
19	TF/2016/Mech/022	K.Sudhakar
20	TF/2016/Mech/023	Rini Jena
21	TF/2016/Mech/024	G.Balaganesan
22	TF/2016/Mech/025	L.Vijay
23	TF/2016/Mech/026	D.Madhanraj
24	TF/2016/Mech/027	K.Suresh Babu
25	TF/2016/Mech/028	R.Vijayan
26	TF/2016/Mech/029	Naveenraj
27	TF/2016/Mech/030	K.Ganapathi
28	TF/2016/Mech/031	S.Sabarisarathkumar
29	TF/2016/Mech/032	S.Selva kumar
30	TF/2016/Mech/033	J.Ezhil
31	TF/2016/Mech/034	K.Jesuraj
32	TF/2016/Mech/035	S.Mohaideen Abdul Kathar Jailani
33	TF/2016/Mech/036	R. Balamurugan
34	TF/2016/Mech/037	A.Karpaga Raj
35	TF/2016/Mech/038	M.Vijayamuthan
36	TF/2016/Mech/039	P.Subramani
37	TF/2016/Mech/040	A.Manigandan
38	TF/2016/Mech/041	Cyril Reuben Raj
39	TF/2016/Mech/042	S.Thiyagarajan
40	TF/2016/Mech/044	S.Sudagar
41	TF/2016/Mech/045	B.Johnson Joseph Jebakumar
42	TF/2016/Mech/046	P.Arockiaraja
43	TF/2016/Mech/047	P.Kannan
44	TF/2016/Mech/048	P.Kubendhiran
45	TF/2016/Mech/049	S.Marimuthu
46	TF/2016/Mech/050	Golluri Nagesh
47	TF/2016/Mech/051	Kumar Saushthan Shrivastava

48	TF/2016/Mech/052	R.Vignesh
49	TF/2016/Mech/053	S. Dinesh Kumar
50	TF/2016/Mech/054	S.Dhinesh
51	TF/2016/Mech/055	Pavan Khanadalker
52	TF/2016/Mech/056	J.Vinod
53	TF/2016/Mech/058	K.Ananthakumar
54	TF/2016/Mech/059	Bijendra Kumar
55	TF/2016/Mech/061	Sravanthi Boda
56	TF/2016/Mech/062	B.Anbarasan
57	TF/2016/Mech/063	S.Gurusideswar
58	TF/2016/Mech/064	Rohit Kumar
59	TF/2016/Mech/065	K.Somasundaram

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

S.No	Application No.	NAME
1	TF/2016/MME/001	R.Nivas
2	TF/2016/MME/002	Y.G Bala
3	TF/2016/MME/003	Chandra Sekhar Kondaveeti
4	TF/2016/MME/004	R.K Udhaya Kumar
5	TF/2016/MME/005	Ani Antony
6	TF/2016/MME/006	S.Ramakrishnan
7	TF/2016/MME/007	J.Maya
8	TF/2016/MME/008	C.Anand Chairman
9	TF/2016/MME/009	R.John Felix Kumar
10	TF/2016/MME/011	M.Ilayaraja
11	TF/2016/MME/012	J.Anthuvan Stephen Edberk
12	TF/2016/MME/013	Preeti Verma
13	TF/2016/MME/014	Sravanthi Boda
14	TF/2016/MME/015	M.Kesava Moorthy

DEPARTMENT OF MANAGEMENT STUDIES

S.No	Application No.	NAME
1	TF/2016/MBA/002	R. Ayappan
2	TF/2016/MBA/003	G. Sreeaarthi
3	TF/2016/MBA/004	R. Venkatesan
4	TF/2016/MBA/005	N. Chitra Devi
5	TF/2016/MBA/011	M. Muthu Gopalakrishnan
6	TF/2016/MBA/013	G. Dheebika
7	TF/2016/MBA/014	M. Manikandan
8	TF/2016/MBA/015	K. Nirmala
9	TF/2016/MBA/016	Thamidapati Hemanth
10	TF/2016/MBA/017	Manu Melwin Joy
11	TF/2016/MBA/019	M.S. Gayathri

DEPARTMENT OF COMPUTER APPLICATIONS

S.No	Application No.	NAME
1	TF/2016/CA/002	R. Bhuvanya
2	TF/2016/CA/003	E. Renuga
3	TF/2016/CA/005	T. Siron Anita Susan
4	TF/2016/CA/006	K.Uma
5	TF/2016/CA/009	S.Bhuvaneswari
6	TF/2016/CA/010	K.Bakiya
7	TF/2016/CA/013	V.Uma sankari
8	TF/2016/CA/014	Nimisha Joy
9	TF/2016/CA/015	Vimal Chander
10	TF/2016/CA/016	Swarna Kuchibhotla
11	TF/2016/CA/017	J.Sivasangari
12	TF/2016/CA/018	A.Amala Littina Raj
13	TF/2016/CA/020	M.Gowri Shankar

14	TF/2016/CA/021	K. Sakkaravarthy Iyyappan
15	TF/2016/CA/022	K.Pradeepa
16	TF/2016/CA/023	P.Sathya
17	TF/2016/CA/025	R.Gobi
18	TF/2016/CA/027	K.Vimala
19	TF/2016/CA/028	D.Sathiya
20	TF/2016/CA/029	S.Stewart Kirubakaran
21	TF/2016/CA/030	M.Ramprasath
22	TF/2016/CA/033	P.Balasubramanian
23	TF/2016/CA/036	Arun Kishore Aboorvasamy
24	TF/2016/CA/037	M.Valaramathi
25	TF/2016/CA/038	R.Ganapathy Subramanian
26	TF/2016/CA/040	G.Dineshnath
27	TF/2016/CA/041	J.Chandra Priya
28	TF/2016/CA/043	Chanduvupally Madhusudhan
29	TF/2016/CA/046	M.Kannan
30	TF/2016/CA/049	J.Saranya
31	TF/2016/CA/050	S.Arulselvarani

DEPARTMENT OF MATHEMATICS

S.No	Application No.	NAME
1	TF/2016/Maths/004	M.Kalpana
2	TF/2016/Maths/008	S.S.Rukmani
3	TF/2016/Maths/011	A.Shanmuga Vadivu
4	TF/2016/Maths/014	C.Priya
5	TF/2016/Maths/015	V.Vijayabharathi
6	TF/2016/Maths/029	S.Vinoth

DEPARTMENT OF PRODUCTION ENGINEERING

S.No	Application No.	NAME
1	TF/2016/Pro/001	C. Ramya
2	TF/2016/Pro/002	Michael Simon

3	TF/2016/Pro/005	V.R. Vimal
4	TF/2016/Pro/006	Jammula Shyamsunder
5	TF/2016/Pro/007	Venkata Ramanaiah Darla
6	TF/2016/Pro/008	T. Thirugnana Sambandham
7	TF/2016/Pro/011	M. Kalaiyarasan
8	TF/2016/Pro/012	S. Sudhakaran
9	TF/2016/Pro/013	B. Anbarasan
10	TF/2016/Pro/014	A.S. Prashanth
11	TF/2016/Pro/015	S. Sabari Sarath Kumar
12	TF/2016/Pro/016	S. Ramesh Kumar
13	TF/2016/Pro/017	R. Manivannan
14	TF/2016/Pro/018	S. Thiyagarajan
15	TF/2016/Pro/019	P. Reginald Elvis
16	TF/2016/Pro/020	A. Ranjith Raj
17	TF/2016/Pro/021	T.S Sadagoapan
18	TF/2016/Pro/023	G. Seshanandan
19	TF/2016/Pro/024	V. Chakkravarthy
20	TF/2016/Pro/027	R. Vignesh
21	TF/2016/Pro/028	A. Evangeline
22	TF/2016/Pro/029	N.M. Vijay Aravindhan
23	TF/2016/Pro/030	Satyanarayana Pilla
24	TF/2016/Pro/032	A. Rajesh Kannan
25	TF/2016/Pro/033	Y. Amaladasan
26	TF/2016/Pro/034	V. Raj Kumar
27	TF/2016/Pro/035	T. Raam Kumar

ANNEXURE-II

SYLLABUS FOR WRITTEN TEST FOR SELECTION OF TEMPORARY FACULTY – JULY -2016

1. DEPARTMENT OF ARCHITECTURE

For Architecture temporary facility	For fine arts temporary faculty
1. Building Construction and Materials,	1. Color Theory & Color Composition
2. Building Services (Water supply and Drainage, Lighting, Air-conditioning, Fire, Electrical and Mechanical Services)	2. 2D & 3D Animation
3. Professional Practice,	3. Indoor & Outdoor Drawing & Sketching
4. Bye-laws and Construction Management	4. Geometrical Drawing & Perspective Drawing
5. History/ Contemporary Architecture,	5. Still Life
6. Energy Efficient/ Green Buildings	6. Clay & Plaster Modelling
7. Urban Planning/	7. Drawing and illustration (industrial work)
8. Urban Design	8. Portfolio development & Digital Manipulation
9. Landscape Architecture,	9. Letter calligraphy / typography
	10. Photography
	11. Computer applications
	12. Language: English / Hindi

2. DEPARTMENT OF ENERGY & ENVIRONMENTAL ENGINEERING

1.Heat Transfer.	6.	Solar energy.
2.Mass Transfer	7.	Air Pollution.
3.Fluid Mechanics.	8.	Water Pollution.
4.Thermal Engineering.	9.	Basics of Mechanics
5.Wind Energy	10.	Basics of Electrical Engineering and Biotechnology.

3. DEPARTMENT OF CHEMICAL ENGINEERING

ENGINEERING MATHEMATICS

Linear Algebra: Matrix algebra, Systems of linear equations, Eigen values and eigenvectors.

Calculus*:* Functions of single variable, Limit, continuity and differentiability, Mean value theorems, Evaluation of definite and improper integrals, Partial derivatives, Total derivative, Maxima and minima, Gradient, Divergence and Curl, Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

Differential equations: First order equations (linear and nonlinear), Higher order linear differential equations with constant coefficients, Cauchy's and Euler's equations, Initial and boundary value problems, Laplace transforms, Solutions of one dimensional heat and wave equations and Laplace equation.

Complex variables: Analytic functions, Cauchy's integral theorem, Taylor and Laurent series, Residue theorem.

Probability and Statistics: Definitions of probability and sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Poisson, Normal and Binomial distributions.

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations Integration by trapezoidal and Simpson's rule, single and multi-step methods for differential equations.

CHEMICAL ENGINEERING

Process Calculations and Thermodynamics: Laws of conservation of mass and energy; use of tie components; recycle, bypass and purge calculations; degree of freedom analysis. First and Second laws of thermodynamics. First law application to close and open systems. Second law and Entropy. Thermodynamic properties of pure substances: equation of state and departure function, properties of mixtures: partial molar properties, fugacity, excess properties and activity coefficients; phase equilibria: predicting VLE of systems; chemical reaction equilibria.

Fluid Mechanics and Mechanical Operations: Fluid statics, Newtonian and non-Newtonian fluids, Bernoulli equation, Macroscopic friction factors, energy balance, dimensional analysis, shell balances, flow through pipeline systems, flow meters, pumps and compressors, packed and fluidized beds, elementary boundary layer theory, size reduction and size separation; free and hindered settling; centrifuge and cyclones; thickening and classification, filtration, mixing and agitation; conveying of solids.

Heat Transfer: Conduction, convection and radiation, heat transfer coefficients, steady and unsteady heat conduction, boiling, condensation and evaporation; types of heat exchangers and evaporators and their design.

Mass Transfer: Fick's laws, molecular diffusion in fluids, mass transfer coefficients, film, penetration and surface renewal theories; momentum, heat and mass transfer analogies; stagewise and continuous contacting and stage efficiencies; HTU & NTU concepts design and operation of equipment for distillation, absorption, leaching, liquid-liquid extraction, drying, humidification, dehumidification and adsorption.

Chemical Reaction Engineering: Theories of reaction rates; kinetics of homogeneous reactions, interpretation of kinetic data, single and multiple reactions in ideal reactors, non-ideal reactors; residence time distribution, single parameter model; non-isothermal reactors; kinetics of heterogeneous catalytic reactions; diffusion effects in catalysis.

Instrumentation and Process Control: Measurement of process variables; sensors, transducers and their dynamics, transfer functions

and dynamic responses of simple systems, process reaction curve, controller modes (P, PI, and PID); control valves; analysis of closed loop systems including stability, frequency response and controller tuning, cascade, feed forward control.

Plant Design and Economics: Process design and sizing of chemical engineering equipment such as compressors, heat exchangers, multistage contactors; principles of process economics and cost estimation including total annualized cost, cost indexes, rate of return, payback period, discounted cash flow, optimization in design.

Chemical Technology: Inorganic chemical industries; sulfuric acid, NaOH, fertilizers (Ammonia, Urea, SSP and TSP); natural products industries (Pulp and Paper, Sugar, Oil, and Fats); petroleum refining and petrochemicals; polymerization industries; polyethylene, polypropylene, PVC and polyester synthetic fibers.

4. DEPARTMENT OF CHEMISTRY

Organic Chemistry

Reaction mechanism: Definition of reaction mechanism, transition state theory, kinetics, qualitative picture. Substituent effects, linear free energy relationships, Hammett equation and related modifications. Basic mechanistic concepts like kinetic *vs* thermodynamic control, Hammond postulate, Curtin-Hammett principle, isotope effects, general and specific acid-base catalysis, and nucleophilic catalysis.

Nucleophilic substitution: Reactivity, structural and solvent effects, substitution in S_N1, S_N2, S_Ni. Neighbouring group participation - Norbornyl and bridgehead systems, substitution at allylic and vinylic carbons, substitution by ambident nucleophiles, aromatic nucleophilic substitution, S_NAr, benzyne, S_N1. Aromatic nucleophilic substitution of activated halides

Addition to carbon-carbon multiple bonds: Electrophilic, nucleophilic and free radical addition. Stereochemistry and orientation of the addition.Hydrogenation, halogenation, hydroxylation, hydroboration. Addition to carbonyl compounds - 1,2 and 1,4-addition, benzoin, Knoevenegal, Stobbe and Darzenglycidic ester reactions.

Elimination reactions: E1, E2, E1CB- mechanism, stereochemistry, orientation of double bonds - Hoffmann, Zaitsev, Bredts rule - pyrolytic elimination, Chugaev reaction. Oxidation and reduction: Reduction using hydride reagents, $LiAlH_4$, $NABH_4$ and other organoboranes: chemo- and stereoselectivity, catalytic hydrogenation (homogenous and heterogeneous catalysts), Swern and Dess-Martin oxidations, Corey-Kim oxidation, PCC, $KMnO_4$ oxidations.

Theories of aromaticity: Aromaticity, antiaromaticity, Huckel's rule, annulences and heteroannulenes, fullerenes (C60). Other conjugated systems, Chichibabin reaction. Aromatic electrophilic substitution: Orientation, reactivity, and mechanisms. Substitution in thiophene and pyridine. Reactive intermediates - carbenes, nitrenes, radicals, Ylides - Formation, stability and their applications.

Fundamentals of photochemistry: Qualitative introduction about different transitions, cis-trans isomerization, Paterno-Buchi reaction, Norrish type I and II reactions, photo reduction of ketones, photochemistry of arenes, di-pi-methane and Hoffmann-Loeffler-Freytag rearrangements.

Pericyclic reactions: Classification, electrocyclic, sigmatropic, cycloaddition and ene reactions, Woodward-Hoffmann rules, and FMO theory, Claisen, Cope, Sommelet-Hauser, and Diels-Alder reactions in synthesis, stereochemical aspects.

Optical activity and chirality: absolute and relative configuration - R-S notation system, molecules with more than one asymmetric center. Enantiotopic and diastereotopic atoms, groups and faces.Stereo specific and stereo selective synthesis, optical isomerism of biphenyls, allenes and spiranes.Compounds containing chiral nitrogen and sulfur.Geometrical isomerism, E, Z- nomenclature of olefins, cumulenes and oximes.

Conformational analysis: Fischer projection, inter-conversion of Sawhorse, Newman and Fischer projections, conformational analysis of ethane and disubstituted ethane derivatives, cycloalkanes and substituted cyclohexane. Conformation and stereochemistry of cis and transdecalin and 9-methyldecalin. Anomeric effect in cyclic compounds.

Rearrangementreactions: involving electron deficient, carbon, nitrogen, oxygen centers, emphasis on synthetic utility of these rearrangements. Baker–Venkataraman, benzilic acid, [1,2]-Meisenheimer, [2,3]-Meisenheimer, Wagner-Meerwein, Pinacol, Demyanov, Dienone-Phenol, Favorskii, Wolff, Hofmann, Curtius, Lossen, Schmidt, Beckmann, Benzidine, Hofmann-Loffler rearrangements.

Introduction to retrosynthesis: Synthon, synthetic equivalent, target molecule, functional group interconversion, disconnection approach, importance of the order of events in organic synthesis. Chemoselectivity, one group C-C and C-X disconnection (disconnection of alcohols, alkenes, and carbonyl compounds).

Two group C-C & C-X disconnections: 1,3 and 1,5 difunctionalised compounds, α,β-unsaturated carbonyl compounds, control in carbonyl condensation, synthesis of 3,4,5 and 6 membered rings in organic synthesis. Diels- Alder reaction, connection in retro synthesis.

Protecting groups: Protection of hydroxyl, carboxyl, carbonyl, amino groups.Umpolung reagents, definition of umpolung, acyl anion equivalent, protection of carbon-carbon multiple bonds.Illustration of protection and deprotection in synthesis.

Reagents in organic synthesis: Functional group transformation, complex metal hydrides, Gilman's reagent, lithium diisoproplyamide (LDA), dicyclohexylcarbodimide, timethylsilyl iodide, Woodward and Provost hydroxylation, osmium tetraoxide, DDQ, SeO_2, lead tetraacetate, H_2O_2,phase transfer catalyst, crown ethers and Merrifield resin, Wilkinson's catalyst, Baker yeast.

Name reactions in organic synthesis: Peterson olefination, McMurry, Shapiro reaction, Wittig and its modifications, palladium based reactions - Suzuki, Heck, Sonagashira, Hiyama, Stille, Glazer-Eglington coupling, Sharplessepoxidation, Henry reaction, Michael addition, aldol, Claisen, Dieckman condensations, Barton, Baylis Hillman reaction, Stork enamine reaction and selective mono and di alkylation *via*enamines.

Inorganic Chemistry

Theories of coordination compounds - VB theory - CFT - splitting of d orbitals in ligand fields and different symmetries - CFSE - factors affecting the magnitude of 10 Dq - evidence for crystal field stabilization - spectrochemical series - site selection in spinels - tetragonal distortion from octahedral symmetry - Jahn-Teller distortion - Nephelauxetic effect - MO theory - octahedral - tetrahedral and square planar complexes - p-bonding and molecular orbital theory - experimental evidence for p-bonding.

Reactions: Substitution reactions in square planar complexes - the rate law for nucleophilic substitution in a square planar complex - the trans effect - theories of trans effect - mechanism of nucleophilic substitution in square planar complexes - kinetics of octahedral substitution - ligand field effects and reaction rates - mechanism of substitution in octahedral complexes - reaction rates influenced by acid and bases - racemization and isomerization - mechanisms of redox reactions - outer sphere mechanisms - excited state outer sphere electron transfer reactions - inner sphere mechanisms - mixed valent complexes.

Electronic spectra and magnetism: Microstates, terms and energy levels for $d^1 – d^9$ ions in cubic and square fields - selection rules - band intensities and band widths - Orgel and Tanabe-Sugano diagrams - evaluation of 10 Dq and β for octahedral complexes of cobalt and nickel - charge transfer spectra - magnetic properties of coordination compounds - change in magnetic properties of complexes in terms of spin orbit coupling - temperature independent paramagnetism - spin cross over phenomena.

IR and Raman spectroscopy: Structural elucidation of simple molecules like N_2O, ClF_3, NO_3^-, ClO_4^- - effect of coordination on ligand vibrations - uses of group vibrations in the structural elucidation of metal complexes of urea, thiourea, cyanide, thiocyanate, nitrate, sulphate and DMSO - effect of isotopic substitution on the vibrational spectra of molecules - applications of Raman spectroscopy

Structure: Structure of coordination compounds with reference to the existence of various coordination numbers (2, 3, 4, 5 & 6) - site preferences - isomerism - trigonal prism - absolute configuration of complexes - stereo selectivity and conformation of chelate rings - coordination number seven and eight. Spectral and magnetic properties of lanthanide and actinide complexes.

Structure and bonding in organometallics: 18/16-electron rule - metal carbonyls – bonding – spectra – nitrosyls - dinitrogen complexes – phosphines - metal alkyls, aryls, hydrides and dihydrogen complexes - π-bonding ligands – metallocenes - electronic structure and bonding in ferrocene - synthesis, physical and spectroscopic properties of metallocenes - fluxional molecules.

Reaction mechanism and catalysis: Ligand substitution - oxidative addition and reductive elimination - 1,1 and 1,2-insertion - addition and elimination reactions - alkene isomerization- hydroboration - hydrocyanation - hydrogenation of olefins - Wilkinson's catalyst - hydroformylation of olefins - Wacker-Smidt synthesis - Monsanto acetic acid process -Eastman Halcon process - Fischer-Tropsch process - hydrosilylation.

Carbenes: Fischer and Schrock carbenes - bonding & reactivity - Grubbs catalyst - carbynes structure, synthesis and reactions- alkene metathesis – mechanism - RCM-ROMP, SHOP and ADMET - C-H and C-C activation - agostic bonds - Ziegler-Natta polymerization of olefins - Heck reaction - The PausonKhand reaction - Ene reaction.

Transport of metal ions: Uptake, transport and storage of metal ions by organisms - structure and functions of biological membranes - the generation of concentration gradients (the Na^+-K^+ pump) - mechanisms of ion-transport across cell membranes – bleomycin - siderophores (e.g. enterobactin and desferrioxamine) - transport of iron by transferring - storage of iron by ferritin - bio chemistry of calcium as hormonal messenger.

Metalloporphyrins/Metalloenzymes: Dioxygen transport and storage - hemoglobin and myoglobin: electronic and spatial structures - hemeythrin and hemocyanine - synthetic oxygen carriers, model systems - blue copper proteins (Cu) - iron-sulfur proteins (Fe)-cytrochromes electron transport chain - carbon monoxide poisoning - iron enzymes - peroxidase, catalase and cytochrome P-450, copper enzymes - superoxide dismutase, vitamin B12 and B12 coenzymes, photosynthesis - photosystem-I & II, nitrogen fixation, cisplatin.

Fundamentals: Types of solids - close packing of atoms and ions - bcc , fcc and hep voids - Goldschmidt radius ratio - derivation - its influence on structures - structures of rock salt - cesium chloride - wurtzite - zinc blende - rutile - fluroite - antifluorite - diamond and graphite - spinel - normal and inverse spinels and perovskite - lattice energy of ionic crystals - Madelung constant - Born-Haber cycle and its applications.

Theories: Band theory of solids. Free electron Theory, zone theory, MO theory of solids -dislocation in solids: Schottky and Frenkel defects. Line defects and plane defects – non -stoichiometric compounds. Electrical properties: Energy bands, insulators, semiconductors and conductors - super conductors - dielectric properties, piezo-electricity, ferro electricity -conductivity in pure metals. Superconductivity: Occurrence, BCS theory, high temperature super conductors - introduction to nanoparticles - metal nanoparticles - particle size determination.

X- Ray diffraction: Theory- the crystal systems and Bravais lattices - Miller indices and labelling of planes - symmetry properties - crystallographic point groups and space groups - X-ray diffraction - powder and rotating crystal methods - systematic absences and determination of lattice types - analysis of X-ray data for cubic system - structure factor and Fourier synthesis - Fundamentals of electron and neutron diffraction.

Nuclear structure: Mass and charge, nuclear moments, binding energy, mass defect, packing fraction, stability, magic numbers. Modes of radioactive decay and rate of radioactive decay - half-life, average life, radioactive equilibrium: Transient and secular - nuclear reactions: Energetics and types - nuclear fission- liquid drop model - nuclear fusion - essential features of nuclear reactors - tracer techniques, neutron activation analysis - carbon and rock dating - application of tracers in chemical analysis, reaction mechanisms, medicine and industry.

Inorganic rings and polymers: Catenation, heterocatenation, intercalation chemistry, one dimensional conductor, polymeric sulfur nitride - Preparation, properties - isopoly anions - heteropoly anions - borazines - phosphazenes - phosphazene polymers - ring compounds of sulphur and nitrogen. Interhalogen compounds - oxoacids of selenium and tellurium. Noble gas chemistry and their halides and pseudohalides.

Physical Chemistry

Quantum chemistry: The failures of classical physics – Black body radiation - photoelectric effect - Bhor's quantum theory, Wave particle duality - Uncertainty principle, Quantum mechanical postulates, Schrodinger equation and its solution to the problem of a particle in one and three dimensional boxes. Quantum mechanical results for a rigid rotator and simple harmonic oscillator, Schrodinger equation for hydrogen atom and its solution - Derivation of Eigen function and Eigen value for hydrogen atom. Term symbols for electronic state in atoms – LS and JJ coupling. The origin of electronic quantum numbers and physical significance - radial probability density - significance of magnetic quantum number with respect to angular momentum.Hydrogen molecule ion and hydrogen molecule - Pauli's exclusion principle.Born Oppenheimer approximation, Mulliken designation of molecular orbitals.MO theory of bonding, MO treatment of H-bonded systems, ethylene, butadiene and benzene. Approximation methods: Perturbation and variation method, wave functions for many electron atoms – Hartree-Fock SCF method, Slater orbitals.

Group theory: Elements of group theory, definition, group multiplication tables, conjugate classes, conjugate and normal subgroups, symmetry elements and operations, point groups, assignment of point groups to molecules, Matrix representation of geometric transformation and point group, reducible and irreducible representations, construction of character tables, bases for irreducible representation, direct product, symmetry adapted linear combinations, projection operators. Orthogonality theorem - its consequences. Symmetry aspects of molecular orbital theory, planar π-systems, symmetry factoring of Huckel determinants, solving it for energy and MOs for ethylene and 1,4-butadiene, sigma bonding in AX_n molecules, hybridization, tetrahedral, octahedral, square planner, trigonal planar, linear, trigonalbipyramidal systems, hybrid orbitals as linear combination of AOs, electronic spectra, selection rule, polarization electron dipole transition, electronic transitions in formaldehyde, butadiene, configuration interaction, vibrational spectra, symmetry types of normal molecules, symmetry coordinates, selection rules for fundamental vibrational transition, IR and Raman activity of fundamentals in CO_2, H_2O, N_2F_2, the rule of mutual exclusion and Fermi resonance.

Thermodynamics: Laws of thermodynamics, Nernst heat theorem and other forms of stating the third law. Thermodynamic quantities at absolute zero, apparent exceptions to the third law - thermodynamics of systems of variable composition, partial molar properties, chemical potential, relationship between partial molar quantities, Gibbs Duhem equation and its applications (the experimental determination of partial molar properties not included) - thermodynamic properties of real gases, fugacity concept, calculation of fugacity of real gas, activity and activity coefficient, concept, definition, standard states and experimental determinations of activity and activity coefficient of electrolytes.

Phase rule, colloids and micelles: Three component systems, representation by triangular diagrams, systems of three liquids, formation of one pair of partially miscible liquids, formation of two pairs of partially miscible liquids, solid, liquid phases, eutectic systems - colloids: Distinction between suspension, colloidal solutions and true solutions, lyophilc and lyophobic colloids, Tyndall effect, stability of colloids, coagulation, emulsions, various types. Micelles: Surfactant (amphipathic molecule), micellisation, critical micelle concentration, size of micelle, aggregation number, thermodynamics of micellization, solubilisation behavior of micelles, reverse micelles.

Electrochemistry: Ion transport in solution - migration, convention and diffusion -Fick's laws of diffusion conduction - influence of ionic atmosphere on the conductivity of electrolytes - The Debye Huckel-Onsager equation for the equivalent conductivity of electrolytes - experimental verification of the equation - conductivity at high field and at high frequency - conductivity of non aqueous solutions - effect of ion association on conductivity. The electrode-electrolyte interface - electrical double layer - electro capillary phenomena -Lippmann equation - the Helmholz - Perrin - Guoy - Chapmann and Stern models, electrokinetic phenomena Tiseiius method of separation of protons of proteins - membrane potential. Elecrodics - mechanism of electrode reactions - polarization and over potential - the Butler volmer equation for one step and multistep electron transfer reaction - significance of equilibrium exchange current density and symmetry factor -significance of transfer coefficient - mechanism of the hydrogen evolution reaction and oxygen evolution reactions. Some electrochemical reactions of technological interest - corrosion and passivity of metals - construction and use of Pourbaix and Evans diagrams - methods of protection of metals from corrosion, fuel cells - electro deposition.

Chemical kinetics: Simultaneous reactions - opposing, parallel and consecutive reactions, the steady state approximation - theories of reaction rates - transition state theory and collision theory a comparison - enthalpy, entropy and free energy of activation, potential energy surfaces, reaction coordinates, kinetic isotope effects, factors determining reaction rates in solution, solvent dielectric constant and ionic strength. Chain reactions - linear reactions, branching chains - explosion limits; Rice–Herzfeld scheme; kinetics of free radical polymerization reactions. Enzyme catalysis - rates of enzyme catalysed reactions - effect of substrate concentration, pH and temperature - determination of Michael's parameters.

Statistical thermodynamics: Maxwel's law of distribution of molecular speeds, graphical representation, experimental verification - derivation of expressions for average, most probable and root mean square velocity. Concept of velocity space and phase space - perturbution and combination - laws of probability - microstates for distinguishable and indistinguishable particles. Derivation of Maxwell Boltzmann distribution law - partition functions and their calculation. Expressions for thermodynamic quantities in terms of partition functions - translational, rotational, vibrational and electronic contributions to the thermodynamic properties of perfect gases, Intermolecular forces in imperfect gases. Statistical interpretation of laws of thermodynamics, third law of thermodynamics and

apparent expression to it. Quantum statistics: Limitation of classical statistics - quantum statistics and classical statistics, comparison - heat capacities of gases in general and hydrogen in particular - heat capacities of solids. Einstein and Debye models - Bose Einstein statistics and Fermi Dirac statistics and corresponding distribution functions - applications of quantum statistics to liquid helium, electrons in metal and Planck's radiation law.

Photochemistry: Absorption and emission of radiation, Franck Condon principle decay of electronically excited states, radiative and non-radiative processes, fluorescence and phosphorescence, spin-forbidden radiative transitions, inter conversion and intersystem crossing. Theory of energy transfer - resonance and exchange mechanism, triplet-triplet annihilation, photosensitization and quenching.Spontaneous and induced emissions.Einstein transition probability - inversion of population - laser and masers. Flash photolysis: Chemi and thermoluminescence.

Surface chemistry: Surface Phenomena, Gibbs adsorption isotherm, types of adsorption isotherms, solid-liquid interfaces, contact angle and wetting, solid-gas interface, physisorption and chemisorption, Freundlich, derivation of Langmuir and BET isotherms, surface area determination. Kinetics of surface reactions involving adsorbed species, Langmuir-Hinshelwood mechanism, Langmuir-Rideal mechanism, Rideal-Eley mechanism. Surface Films, Langmuir-Blodgett films, self assembled mono layers, collapse pressure, surface area and mechanism of heterogeneous catalysis, phase transfer catalysis. Chemical analysis of surfaces: Surface preparations - spectroscopic surface characterization methods, electron spectroscopy, ion scattering spectrometry, secondary ion scattering microscopy (SIMS) - Auger electron spectroscopy - instrumentation and application. Electron stimulated micro analysis, scanning probe microscopes.

5. DEPARTMENT OF CIVIL ENGINEERING

STRUCTURAL ENGINEERING

Mechanics: Bending moment and shear force in statically determinate beams. Simple stress and strain relationship: Stress and strain in two dimensions, principal stresses, stress transformation, Mohr's circle. Simple bending theory, unsymmetrical bending, flexural and shear stresses, unsymmetrical bending, shear centre. Thin and thick cylinders, uniform torsion, buckling of column, combined and direct bending stresses.

Structural Analysis: Analysis of statically determinate and indeterminate structures, influence lines for determinate and indeterminate structures. Basic concepts of matrix methods of structural analysis.

Concrete Structures: Concrete Technology- properties of concrete, basics of mix design. Concrete design- basic working stress and limit state design concepts, analysis and design of members subjected to flexure, shear, compression and torsion by limit state methods. Basic elements of prestressed concrete, analysis of beam sections at transfer and service loads.

Steel Structures: Analysis and design of tension and compression members, beams and beam-columns, column bases. Connections-simple and eccentric, beam–column connections, plate girders and trusses. Plastic analysis of beams and frames.

Building materials and construction, construction management – principles and applications

ENVIRONMENTAL ENGINEERING

Water requirements: Quality standards, basic unit processes and operations for water treatment. Drinking water standards, water requirements, Water quality and tests, bacteriology of water – tests, basic unit operations and unit processes for surface water treatment, distribution of water.Sewage and sewerage treatment, quantity and characteristics of wastewater. Primary, secondary and tertiary treatment of wastewater, sludge disposal, effluent discharge standards. Domestic wastewater treatment, quantity of characteristics of domestic wastewater, primary and secondary treatment Unit operations and unit processes of domestic wastewater, sludge disposal.

Air Pollution: Types of pollutants, their sources and impacts, air pollution meteorology, air pollution control, air quality standards and limits.

Municipal Solid Wastes: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse / recycle, energy recovery, treatment and disposal).

EIA: Evolution of EIA – Concepts – Methodologies – Screening – Scoping – Mitigation – Public participation - Environmental Audit – Life cycle assessment – EMS

TRANSPORTATION ENGINEERING

Highway Engineering: Highway development and planning - Highway alignment - Geometric design - Pavement materials - Pavement Design

Traffic Engineering: Characteristics of traffic elements – Highway capacity – Traffic studies and surveys - Road accidents - Traffic regulation and control

Railway Engineering: Location surveys and alignment - Permanent way - Geometric design - Track Junctions - Points and crossings - Railway stations and yards - Signaling and interlocking

Airport Engineering: Aircraft characteristics - Airport obstructions and zoning - Runway -Taxiways and aprons - Terminal area planning

Docks and Harbours: Types of harbour - Layout and planning principles - breakwaters – docks - wharves and quays - Transit sheds – warehouses - navigation aids

GEOTECHNICAL ENGINEERING

Soil Mechanics: Origin of soils, soil classification, three-phase system, fundamental definitions, relationship and interrelationships, permeability &seepage, effective stress principle, consolidation, compaction, shear strength.

Foundation Engineering: Sub-surface investigations- scope, drilling bore holes, sampling, penetration tests, plate load test. Earth pressure theories, effect of water table, layered soils. Stability of slopes - infinite slopes, finite slopes. Foundation types-foundation

design requirements. Shallow foundations-bearing capacity, effect of shape, water table and other factors, stress distribution, settlement analysis in sands & clays. Deep foundations–pile types, dynamic &static formulae, load capacity of piles in sands &clays, negative skin friction.

WATER RESOURCES ENGINEERING

Fluid Mechanics and Hydraulics: Properties of fluids, principle of conservation of mass, momentum, energy and corresponding equations, potential flow, applications of momentum and Bernoulli's equation, laminar and turbulent flow, flow in pipes, pipe networks. Concept of boundary layer and its growth. Uniform flow, critical flow and gradually varied flow in open channels, specific energy concept, hydraulic jump. flow measurements in channels, pipes. Dimensional analysis and similitude. Velocity triangles and specific speed of pumps and turbines.

Hydrology: Rainfall, evaporation & infiltration, unit hydrographs, flood estimation, reservoir capacity, Ground water, Well hydraulics.

Irrigation: Duty, delta, estimation of evapotranspiration. Crop water requirements. Hydraulic structures, gravity dams and spillways, earthen dams. Weirs on permeable foundation, cross drainage works. Types of irrigation system, irrigation methods. Water logging and drainage.

SURVEYING

Importance of surveying, principles and classifications, mapping concepts, coordinate system, map projections, measurements of distance and directions, leveling, theodolite traversing, plane table surveying, errors and adjustments, curves, remote sensing and GIS

6. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

1. Data Structures and Algorithms

Development of Algorithms - Notations, Concepts - Arrays - Linked lists - Stacks and queues Trees - Tree Traversing - Operations on Binary Trees – Sorting and Searching techniques - Graphs - BFS, DFS - Shortest path problems.

2. Operating Systems

Basic OS Concepts - Thread and process scheduling - Synchronization - Semaphores - Critical regions - Deadlock prevention and recovery - Memory Management - File Management - I/O Management – Case Studies on Windows and Linux OS.

3. Computer Organization and Architecture

Basic structure of Computers - Arithmetic - Addition & subtraction of signed numbers - Multiplication - Integer division - Floating point operations - Pipelining - Multiple bus organization - Micro programmed control – Hazards - Memory System - Semiconductor RAM memory - Cache memory - Virtual memory - Secondary storage - I/O Organization - Interrupts - DMA - Buses - Interface circuits - Serial communication links.

4. C Programming

C programming – Memory Concepts – Arithmetic Operations - Control Statements – Functions - Pointers – Structures – User Defined Data types - File handling.

5. Microprocessors

8085 processor - Architecture - Bus organization - Registers - ALU - Instruction set of 8085 - Instruction format - Addressing modes - System design using controllers - Microprocessor Interfacing Techniques - Segmented memory concepts - Bus concepts.

6. Computer Networks

Goals of networking, well-known applications such as email, ftp, and need for layered architecture OSI and Internet. Hosttohost communication: RS 232 over serial line; handshaking and error handling; packet switching; reliable transmission stop and wait, sliding window; logical connections. Multiple collocated hosts: addressing, LAN access methods; CSMA/CD, Ethernet, Token passing.

7. DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Transmission lines. Basics of antennas, High frequency antennas, Metamaterial antennas.MIC, MICROSTRIP and STRIPLINE fundamentals, S Parameters, ABCD parameters, smith chart basics, Different Lengths of Transmission lines. Basics of fiber optic communication, fiber amplifiers, applications. Microprocessors, Microcontrollers, Embedded systems, ARMsystem, DSP Processors. Analog Integrated Circuits, Digital Systems, Basics of VLSI, Digital VLSI, Analog IC Design, Verilog HDL, ASIC, DSP for VLSI, VLSI Testing, Low Power VLSI, Communication Theory . Computer Networks. Wireless Communication, Electromagnetic Theory, Microwave electronics, Signals & Systems, DSP, Statistical theory of Communication.

8. DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Mathematics for electrical engineers;
Electric circuits, signals and systems and field theory;
DC machines, transformers and ac machines;
Transmission & distribution systems, power systems - analysis, operation & control;
Control systems;
Electrical and electronics measurements;
Power electronics and drives;
Analog and digital electronics – integrated circuits;
Microprocessors and basics of computers;

9. DEPARTMENT OF HUMANITIES (ECONOMICS)

Definition of Economics - National Income - Definition - Computation of National Income - Portfolio Investment - Business Cycle - Phillips Curve - Unemployment - Inflation - Aggregate Demand and Supply - Classical Vs Keynesian - Budget - Multiplier - Accelerator - Debt management - Federal Reserve System - Quantity theory of Money - Balance of Payments - Exchange Rates - IM and IS - Demand and Supply - Utility theories - Consumer Surplus - Producers Surplus - Cost Analysis – BEP

10. DEPARTMENT OF HUMANITIES (ENGLISH)

linguistics:

1. Language and linguistics – Language acquisition and learning – Behaviourist and Cognitivist schools.
2. Grammar, lexis – Phonology and morphology – Internalization – Grammatical competence – Generative grammar.
3. L 2 Acquisition and learning – Theories of SLA and SLL – Bilingualism— Bilingual communities – needs and reasons.
4. Contrastive analysis – Contrastive linguistics – Contrastive grammar –Semantics- Restriction in meaning.
5. Relevance of linguistics to teaching – Class room methods – Selection of materials - Managing learner difficulties.

English language teaching:

1. Theories of language teaching – Audio-lingual, grammar translation, total Immersion – Communicative language teaching – computer aided teaching
2. English for specific purposes – English for occupational purposes – English for Academic purposes – English for Science & Technology.
3. Importance of the four language skills – Role of materials, tasks in learning – Methodology and its role in the learning process.
4. Evaluation methods and testing techniques – testing as a teaching procedure – Designing tasks and tests – Evaluating testing methods.
5. Teacher orientation and training – Class room interaction – Motivating and Managing learners – Responding to diversity – School, curriculum and society – Teacher, a professional.

Computer Aided Language Learning

1. Computer – Scope in language teaching - Integration of CALL – the Natural languages –Synthesis – Universal Grammar.
2. Background of CALL – Constructivist theory of learning – Self learning and testing -- Interactive learning practice.
3. Individual styles and motivation – Student tracking—Affective impact of computer learning – Problems and possibilities.
4. Material production – Online communication – Reaching the disadvantaged lean – varied leaning pace – Creative element in CALL
5. Competence of English teachers in computer use – Interactive software and CD ROMs – Future trends

11. DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

Linear Algebra: Matrix Algebra, Systems of linear equations, Eigen values and eigen vectors.

Calculus: Mean value theorems, Theorems of integral calculus, Evaluation of definite and improper integrals, Partial Derivatives, Maxima and minima, Multiple integrals, Fourier series. Vector identities, Directional derivatives, Line, Surface and Volume integrals, Stokes, Gauss and Green's theorems.

Differential equations: First order equation (linear and nonlinear), Higher order linear differential equations with constant coefficients, Method of variation of parameters, Cauchy's and Euler's equations, Initial and boundary value problems, Partial Differential Equations and variable separable method.

Complex variables: Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent' series, Residue theorem, solution integrals.

Probability and Statistics: Sampling theorems, Conditional probability, Mean, median, mode and standard deviation, Random variables, Discrete and continuous distributions, Poisson, Normal and Binomial distribution, Correlation and regression analysis.
Numerical Methods: Solutions of non-linear algebraic equations, single and multi-step methods for differential equations.
Transform Theory: Fourier transform, Laplace transform, Z-transform.

Basics of Circuits and Measurement Systems: Kirchoff's laws, mesh and nodal Analysis. Circuit theorems. One-port and two-port Network Functions. Static and dynamic characteristics of Measurement Systems.Error and uncertainty analysis.Statistical analysis of data and curve fitting.

Transducers, Mechanical Measurement and Industrial Instrumentation: Resistive, Capacitive, Inductive and piezoelectric transducers and their signal conditioning. Measurement of displacement, velocity and acceleration (translational and rotational), force, torque, vibration and shock.Measurement of pressure, flow, temperature and liquid level.Measurement of pH, conductivity, viscosity and humidity.

Analog Electronics: Characteristics of diode, BJT, JFET and MOSFET. Diode circuits.Transistors at low and high frequencies, Amplifiers, single and multi-stage.Feedback amplifiers.Operational amplifiers, characteristics and circuit configurations.Instrumentation amplifier.Precision rectifier.V-to-I and I-to-V converter. Op-Amp based active filters. Oscillators and signal generators.

Digital Electronics: Combinational logic circuits, minimization of Boolean functions. IC families, TTL, MOS and CMOS. Arithmetic circuits. Comparators, Schmitt trigger, timers and mono-stable multi-vibrator. Sequential circuits, flip-flops, counters, shift registers. Multiplexer, S/H circuit. Analog-to-Digital and Digital-to-Analog converters. Basics of number system. Microprocessor applications, memory and input-output interfacing. Microcontrollers.

Signals, Systems and Communications: Periodic and aperiodic signals. Impulse response, transfer function and frequency response of first- and second order systems. Convolution, correlation and characteristics of linear time invariant systems. Discrete time system, impulse and frequency response. Pulse transfer function. IIR and FIR filters. Amplitude and frequency modulation and demodulation. Sampling theorem, pulse code modulation. and time division multiplexing. Amplitude shift keying, frequency shift keying and pulse shift keying for digital modulation.

Electrical and Electronic Measurements: Bridges and potentiometers, measurement of R,L and C. Measurements of voltage, current, power, power factor and energy. A.C & D.C current probes. Extension of instrument ranges. Q-meter and waveform analyzer. Digital voltmeter and multi-meter. Time, phase and frequency measurements. Cathode ray oscilloscope. Serial and parallel communication. Shielding and grounding.

Control Systems and Process Control: Feedback principles. Signal flow graphs. Transient Response, steady-state-errors. Routh and Nyquist criteria. Bode plot, root loci. Time delay systems. Phase and gain margin. State space representation of systems. Mechanical,

hydraulic and pneumatic system components. Synchro pair, servo and step motors. On-off, cascade, P, P-I, P-I-D, feed forward and derivative controller, Fuzzy controllers.

Analytical, Optical and Biomedical Instrumentation: Mass spectrometry. UV, visible and IR spectrometry. X-ray and nuclear radiation measurements. sources and detectors, LED, laser, Photo-diode, photo-resistor and their characteristics. Interferometers, applications in metrology. Basics of fiber optics. Biomedical instruments, EEG, ECG and EMG. Clinical measurements. Ultrasonic transducers and Ultrasonography. Principles of Computer Assisted Tomography.

12. DEPARTMENT OF MANAGEMENT STUDIES

1. Marketing Management
2. Principles of management
3. Fundamentals of principal accounting
4. Financial management
5. Information Management
6. Corporate IS Strategy and Management
7. Intro to BAITC
8. System Analysis and Design
9. Software Project Management
10. Organizational behaviour
11. Human Resource Management
12. Operation Research
13. Production and operations research
14. Quantitative techniques

13. DEPARTMENT OF MATHEMATICS

Algebra, Matrix, Calculus, Differential Equations, Partial Differential Equations, Real Analysis, Complex Analysis, Complex Integration, Integral Transforms, Numerical Methods, Fourier Series, Probability and Statistics.

14. DEPARTMENT OF COMPUTER APPLICATIONS

1. Computer Organization and Architecture
2. Data Base Management Systems
3. Operating Systems
4. Computer Networks
5. Programming Languages
6. Data Structures and Algorithms
7. Software Engineering

15. DEPARTMENT OF MECHANICAL ENGINEERING

Engineering Mechanics, Industrial safety, Mechatronics, Engineering Graphics, CAD/CAM, Automobile engineering, Thermal Engineering, Machine Design, Turbo machines, Power Plant Engineering, Refrigeration & Air-conditioning, Mechanics of Machines, Thermodynamics, Heat Transfer, GD & T, Machine drawing

16. DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

"The question paper for written test in Department of Metallurgical and materials engineering, for temporary faculty year 2016, will be at the general competency level of a degree holder in B.Tech. Metallurgical and Materials Engineering. Question will cover various areas of metallurgy and materials."

17. DEPARTMENT OF PRODUCTION ENGINEERING

ENGINEERING MATHEMATICS: Linear Algebra Calculus Differential equations: Complex variables: Probability and Statistics: Numerical Methods:

GENERAL ENGINEERING: Engineering Materials: Applied Mechanics: Theory of Machines and Design: Thermal Engineering: **PRODUCTION ENGINEERING**: Metal Casting: Metal Forming: Metal Joining Processes: Machining and Machine Tool Operations: Tool Engineering: Metrology and Inspection: Powder Metallurgy: Polymers and Composites: Manufacturing Analysis: Computer Integrated Manufacturing

INDUSTRIAL ENGINEERING: Product Design and Development: Engineering Economy and Costing: Work System Design: Facility Design: Production Planning and Inventory Control: Operation Research: Quality Management: Reliability and Maintenance: Management Information System. Intellectual Property System:

Annexure-III

DATA SHEET FOR TEMPORARY FACULTY SELECTION-JULY 2016

Post applied for: Temporary Faculty in Department of _____

<table>
<tr><td colspan="7">Details of Applicant</td><td>Photo</td></tr>
<tr><td>1.</td><td colspan="3">Name and Address (with Email and Mobile No.)</td><td colspan="3"></td><td>Please affix passport Size photo</td></tr>
<tr><td>2.</td><td colspan="3">Age/Date of Birth*</td><td colspan="3"></td><td></td></tr>
<tr><td>3.</td><td colspan="3">Category*: (SC/ST/OBC/PwD/UR)</td><td colspan="3"></td><td></td></tr>
<tr><td>4.</td><td colspan="3">Educational Qualifications:</td><td colspan="3"></td><td></td></tr>
<tr><td></td><td>Degree</td><td>Specialization</td><td>University</td><td>% of marks* /CGPA *</td><td>Class *</td><td>Year</td><td></td></tr>
<tr><td></td><td>UG</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>PG</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>Ph.D.</td><td></td><td></td><td colspan="2">Awarded/Pursuing/Not registered</td><td></td><td></td></tr>
<tr><td>5.</td><td colspan="3">GATE Score *</td><td colspan="3"></td><td></td></tr>
<tr><td>6.</td><td colspan="3">Have you cleared NET / SLET*</td><td colspan="3"></td><td></td></tr>
<tr><td>7.</td><td colspan="3">Place:
Date:</td><td colspan="4">Signature of the Applicant</td></tr>
</table>

***Attach Proof**