

TECHNICAL & HIGHER EDUCATION INSTITUTIONS SOCIETY,
U. T. OF DAMAN & DIU,
OFFICE OF THE PRINCIPAL,
GOVT. POLYTECHNIC-DIU
TTI CAMPUS, FORT ROAD,
DIU.

No. 5-1-THEIS/GP-DIU/TENDER/2018-19/୧୦

Date: 29/06/2018

To,
The DIO,
NIC-Diu.

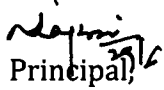
Subject: Regarding uploading short listed candidates for demo lecture and interview for Teaching post in Govt. Polytechnic, Diu in the website.

Sir,

For the Govt. Polytechnic, Diu; it is proposed to upload list of short listed candidates for demo lecture and interview for the post of lecturer in Civil, Mechanical, Electrical, Physics & Mathematics. Also a list of Demo lectures is also to be uploaded. In this connection approval is taken from the Collector, Diu. You are kindly requested to upload the above documents enclosed herewith in the NIC website at the earliest.

Thanking you.

Yours Faithfully,


Principal,
Govt. Polytechnic, Diu

❖ **Regarding preparation for Demo Lecture :**

In all most all post we have uploaded Eight to Ten topics. Prepare any three topics for the demo lecture and at the time of demo lecture mention these topics so, that subject expert can ask you for any one of these topics.

This is for demo lecture only. During interview a committee can ask question related to your field. And not related to demo topic.

❖ **How to reach Diu**

Diu is well connected with capitals Ahmedabad and Mumbai. Air as well as road network can be followed.

1. By Air:

- Weekly 4 times Air India plane comes from Mumbai to Diu.
- Except Sunday, Air Odisha plane comes from Ahmedabad to Diu.

2. By Road:

- Everyday a luxury bus comes from Mumbai to Diu also three sleeping coach buses come from Daman-Vapi-Surat-Vadodara-Diu.
- Everyday approximately ten luxury buses comes from Ahmedabad (Geeta Mandir / Paldi) to Diu.

3. By Railway:

- From any part of India, come to Ahmedabad and from Ahmedabad to Veraval. Veraval is the nearest broad gauge railway station. Veraval is well connected by buses with Diu or Una (Una is just 12 Kms away from Diu).
- Another rail route is upto Rajkot and from Rajkot to Diu by bus.

Topics for the post of Lecturer in Civil Engineering

Demo lecture on 09/07/2018 and interview on 10/07/2018

Topic	Sub Topics
Applied Mechanics	Simple machines: Different terms, Law of machine, Max M.A., V.R. for different machines, Efficiency.
	Friction: Concept, Law of friction, Inclined plane, Force applied horizontal and Parallel to plane
Structural Mechanics	Direct and bending stresses: Simple stress, strain, Modulus of elasticity, Hook's law, Stress Vs strain curve.
	SFD & BMD for various types of beams
	Slope deflection: Cantilever & simply supported beam carrying UDL and/or Point load
Hydraulics	Properties of fluid, pressure & its measurement
	Flow through pipes
	Flow through channels
Surveying	Rise & fall method, line of collimation method, Reduced level
	Fore bearing and back bearing, Closing error
	Trigonometric levelling
Soil mechanics	Density index, particle size distribution, OMD, MDD
Management	Motion study, time study, PERT and CPM

Topics for the post of Lecturer in Mechanical Engineering

Demo lecture on 10/07/2018 and interview on 11/07/2018

Sr. No.	Topic	Sub Topics
1.	Thermal Power Plant	Working cycle, High Pressure Boilers, Auxiliaries of Steam Power Plants. Effect of load variation in steam power plant.
2.	V. C. R. S.	Processes and Elements of VCRS with functions, Characteristics of refrigerants, Detect the leakages, Evacuate and Recharge the refrigerant
3.	Law of thermodynamics	PPM, 4 laws of Thermodynamics, Ideal Gas, Thermodynamics Properties.
4.	I. C. Engine	Working principle of the ICEs, Terminology used in ICE, Combustion process in CI & SI engines.
5.	Modes of Heat Transfer	All modes with corresponding laws in detail.
6.	Psychometry	Properties of air, Representation of Psychometry properties on chart, Various air conditioning processes on psychometric charts.
7.	Metal Joining Process	Arc and Gas Welding, Non-Conventional welding Process, Testing of Welded Joints.
8.	Thermodynamic cycles	All Thermodynamics Cycles.
9.	Pumps and Turbine	Rotary and Reciprocating Pumps, Compounding of Turbines,
10.	Metal Casting Process.	Complete Casting Process (Patterns and its Allowances, Core, Inspection and Testing)

Topics for the post of Lecturer in Electrical Engineering

Demo lecture on 11/07/2018 and interview on 12/07/2018

Sr. No.	Topic
1.	Construction and working of 3-point and 4-point DC motor Starter.
2.	Derivation of Exact and approximate equivalent circuit of single phase transformer.
3.	Equivalent circuit and phasor diagram of Alternator.
4.	Methods of improving string efficiency for insulator.
5.	Methods of forced commutation for chopper.
6.	Solar Power Generation.
7.	Speed control of DC motor.
8.	Explain the types of filters.
9.	Explain pin diagram of micro controller 8051.
10.	Explain working principal and starting methods of synchronous motor.
11.	R-L-C series circuits.
12.	Contracts systems.
13.	Starter.
14.	Multiplexer and de multiplexer.
15.	Protective relays. a. setting of various types of Relays b. Distance Relays.
16.	Earthing a. Necessity of earthing. b. Equipment earthing. c. Earthing Procedure.

Topics for the post of Lecturer in Mathematics.

Demo lecture on 12/07/2018 and interview on 13/07/2018

Sr No.	Topic	Subtopic
1.	Determinate	Concept, Properties, solution of linear equations.
2.	Matrices	Concept, product of matrices, transpose, adjoint, inverse, solution of equations.
3.	limit & Functions	Domain, range, concept of limit, limit to infinity, fundamental theorems.
4.	Differentiation	Geometrical & Physical significance. Derivative of function by first principal. Derivative of Polynomial, trigonometric, exponential, logarithmic & inverse function.
5.	Application of Derivative.	Rate measures, tangent & normal approximation & errors, maxima & minima.
6.	Integration	Integration by substitutions. Partial fraction, by parts, areas under the curve.
7.	Differential equations	Order & degree, General & particular solution, Formation of diff. equation, solution of d.e. by variable separation, homogeneous equ.
8.	Vectors	Scalar product, projection of vector on line, vector product, application of dot & vector product.

Topics for the post of Lecturer in Physics.

Demo lecture on 12/07/2018 and interview on 13/07/2018

Sr No.	Topic
1.	Friction: Concept, Law of friction, Inclined plane, Force applied horizontal and parallel to plane
2.	Direct and bending stresses: Simple stress, strain, Modulus of elasticity, Hook's law, Stress Vs strain curve, Laplace's molecular theory
3.	SYSTEM OF UNITS : Cgs, mks, si
4.	Three modes of transfer heat : conduction, convection, radiation, distinguish between heat and temperature
5.	Transverse and longitudinal waves, applications of ultrasonic wave.
6.	Interference, polarization, carbon nanotube.
7.	Half-life, average life, decay constant, natural & artificial radioactivity.
8.	Construction and working of He-Ne laser, applications of lasers, Fibre Optics,
9.	Magnetic field and its units, magnetic intensity
10.	Semiconductor transistor PNP and NPN and their characteristics, transistor operation in CE mode, relation of current gain
11.	D.C. circuits, Kirchhoff's law
12.	Wheston bridge, Half N Full rectifier

GOVERNMENT POLYTECHNIC, DIU

SHORTLISTED CANDIDATE FOR DEMO LECTURE AND INTERVIEW

Name of Post : Lecturer in Civil Engineering

Sr. No.	Name of Candidate
1	AAMIRHAMZA MUSTAK CHARIWALA
2	ANIRUDDHASINH RANJITSINH SINDHA
3	ANKITABEN BHARATBHAI PATEL
4	APARNA ATMARAM SHELKE
5	ASHISH SINGH
6	ASHISHKUMAR VARMA
7	ASHUTOSHKUMAR
8	CHIRAGBHAI JAYESHBHAI TANK
9	DABHI AJAYKUMAR RAMESHBHAI
10	DEEPANSHU JAIN
11	DHAVAL NARENDRA BHANDARI
12	DINESH CHHAGANBHAI KAMLIYA
13	GHANGAR MANOJ RAMESHBHAI
14	HINSU SAVANKUMAR GOVINDBHAI
15	INDLA MUNISH KUMAR
16	JAY JAGDISHBHAI PAREKH
17	KADIVAR SAHEJAD VALIMAMAD
18	KAKWANI VISHESH SUNIL
19	KHANPARA JINALKUMAR KISHORBHAI
20	KRISHNA SWAIN
21	LALITH KUMAR M.
22	LIMBANI JAIMIN JAYANTILAL
23	MAHESHWARI DEEPAK RAMKUMAR
24	MEGHA PRAKASH DESHMUKH
25	MEHTA MEERA RAIVATBHAI
26	MORVIN NITENDRA SOLANKI
27	NANDANI SHYAMAL CHANDUBHAI
28	NAVNEETKUMAR
29	NIRAV CHIMANLAL VAGHASIA
30	NISHANT GOVINDBHAI DANIDHARIYA
31	PARMAR DIVYESH DUDABHAI
32	PATEL ANKITA VASANT
33	PATEL MILANKUMAR GOVINDBHAI
34	PRAJAKTA CHANDRAPRABHU SHAHA
35	PRATIK CHHAGAN BARAIYA
36	RAHULKUMAR TAMBE
37	RATHOD KISHANKUMAR GHANSHYAMBHAI
38	RAVIKUMAR GOVINDBHAI VALA
39	RAY PRASHANT SOHAN
40	REETESH KHARE
41	SANJAY DEVABHAI DABHI
42	SARVAIYA GEETA SOMABHAI
43	SEETHALAKSHMI BR
44	SHAILENDRA GUPTA
45	SHASHANK YADAV
46	SHRIPRAKASH JAIRAM YADHAV
47	SINGH JALESH SANTOSH
48	SUDANSHU BEHERA
49	VARIYA SANDIPKUMAR RAVJIBHAI
50	VIVEK SHARMA

Name of Post : Lecturer in Electrical Engineering

Sr. No.	Name of Candidate
1	AMAN GURSEWAK TYAGI
2	AMIT AMULLYA DEBNATH
3	AMITKUMAR CHATARSINGH
4	ANKIT GYANPRAKASH TIWARI
5	BARAPATRE ABHILESH VITHAL
6	CHANDRESHKUMAR DEVJIBHAI AGHERA
7	DEEPAKKUMAR MANSUKHBHAI VARU
8	DHRAVLADHARIYA PARAS BHUPATBHAI
9	DIMPLE J.CHAUDHARY
10	DIVYESH NATVARLAL KAMALIA
11	DOSHI DIPESH SHIRISHBHAI
12	GAURAV UMESHKUMAR DARJI
13	GHAGHRA BANSI JASUKHBHAI
14	GOHEL DARSHAN GIRDHARBHAI
15	INDRAJEET BALGIVIND PAL
16	JAYDEEP VALLABHBHAI VANAPARIYA
17	JYOTI KAMLESHBHAI JETAVA
18	KANANI MEETKUMAR GIRDHARBHAI
19	KANKARECHA KAMLESHKUMAR G.
20	KASHISH KAMLESH JAIN
21	KHALASI GAURAV KANTIBHAI
22	KHALASI SATISHKUMAR KANTIBHAI
23	KOLADIYA JIGNESHKUMAR VALJIBHAI
24	KONA AMARENDRA BHAMESWARA RAO
25	MAHENDRA DEVJIBHAI MAKWANA
26	MAYANKKUMAR GAUTAM
27	MITESH PRAKASHBHAI PATEL
28	MOHAMMEDVARIS SANNU MANAN KHAN
29	NAIR NITIN VIJAYAN
30	NANDA HIMESH PRAKASH
31	NEETISH GANGA VISHNU PATEL
32	NEHA SAHU
33	NEHA TAK
34	NIRMAL RAVIRAJ RAJNIKANT
35	PAGI AMITKUMAR FULABHAI
36	PARESH PARMANAND LUHANA
37	PARTH NARESHKUMAR PANDYA
38	PRAKASH ISHWARBHAI PANDAV
39	RAVAL SAPAN NILAYKUMAR
40	RUSHABH VASUDEVBHAI SODHA
41	SANDEEP KALIA DHARAMCHAND
42	SAURABH P. SAKALKALE
43	SHAYERI BIPUL SARKAR
44	SONI JATINKUMAR MAHESHBHAI
45	SURAJ ANKUSH DAHAT
46	TARKHALA AKASHKUMAR DEVABHAI
47	VADHER ASHOKBHAI HARJIVANBHAI
48	VIJAYKUMAR SAHU
49	YUVRAJSINH KANAKSINH BHARATHANIYA
50	ZANKAT DIGVIJAYSINH PRATAPSIKH

Name of Post : Lecturer in Mechanical Engineering

Sr. No.	Name of Candidate
1	ADITYA SWAROOP
2	ALOK KUMAR
3	APSAD ALI
4	ASODARIYA PRASHANTKUMAR DINESHBHAI
5	BHATT MITHIL SANDEEPBHAI
6	BHENSADADIYA MAULIKKUMAR JAGDISHCHANDRA
7	BUMTARIYA MAYUR RAMESHBHAI
8	DENISH MAHESHBHAI PARSANIYA
9	DHOBI MIHIRKUMAR THAKORBHAI
10	DHRMENDRASINH PARMAR
11	DHRUVYESHKUMAR DEVCHAND SOLANKI
12	FUMAKIYA DEVANGKUMAR VIJAYBHAI
13	GANESH S. MUDALIYAR
14	GHADIYA BHARATKUMAR DHIRUBHAI
15	GOVIND VASHISHTHA
16	GUPTA RAHUL SHIVSHANKAR
17	JADEJA RAVIRAJSIKH TAKHATSINH
18	JHALA SHIVBHADRASINH SAHADEVSIKH
19	JITENDER MAHARSHI
20	KISLAY
21	KRISHNACHANDRAN
22	LOKESHKUMAR RANJAN
23	MANAVENDRA MISHRA
24	MEVCHA VIRAL BALRAMBHAI
25	MUSHRAF SAJJADHUSSAIN SYED
26	NAKUM SHAILESH RANMAL
27	NAYI KULDEEP HASMUKHBHAI
28	NEERAJ SURESHSINGH
29	NITINKUMAR JAYANTILAL SHAH
30	PADWE RUSHIKESH ARUNRAO
31	PARMAR MOHIT SURESHBHAI
32	PATEL DHIRENKUMAR PIYUSHKUMAR
33	PRADEEP KUMAR
34	PRAJAPATI MUKESHKUMAR BHIMABHAI
35	PRAJAPATI VINODKUMAR PRAHLADBHAI
36	RAJPUT AJAYKUMARSINGH SHYAMSINGH
37	RITESH KUMAR
38	SHASHI KANT KUMAR
39	SHASHWAT ANAND
40	SOLANKI BHUMITKUMAR SURESH
41	SOLANKI JAYESHKUMAR DEVCHAND
42	SOLANKI NITAL RAMJI
43	SOLANKI VISHVESH LALJI
44	SORATHIYA DHANANJAY JODHABHAI
45	SUBHIRAJSIKH YADAV
46	SURANI KAPILKUMAR KANJIBHAI
47	UPADHYAY PRASHANTKUMAR VIDHYABHUSHAN
48	VAKANI CHIRAG ARVINDKUMAR
49	VERMA GAURAVKUMAR SHIVLAL
50	YADAVENDRA KUMAR MISHRA

Name of Post : Lecturer in Mathematics

Sr. No.	Name of Candidate
1	AVNISHKUMAR R. TIWARI
2	BRIJESHKUMAR GUPTA
3	DANGODARA KAMINIBEN S.
4	DAXA B. JANI
5	DODIYA PRADEEP N.
6	GIRIRAJ ANNAPPA INDI
7	HETAL J. KHUNTI
8	JADAV IRAMBEN I.
9	KAMALIA DARSHANA N.
10	MEERA MEGHAPARA
11	NAUK HARSHIT K.
12	OGANJA KALPESH B.
13	PATHAK SHRIKANT P.
14	POONAM K. RATHORE
15	PUROHIT NISARG B.
16	SACHCHIDA NAND MISHRA
17	SHASHIKANTKUMAR
18	SURBHI N. TILVA
19	TRIVEDI SIDDHANT T.
20	VIVEK SINHA

Name of Post : Lecturer in Physics

Sr. No.	Name of Candidate
1	BHAGYESH TRIVEDI
2	HARDIKA P. GOSWAMI
3	JAIVIK K. PATHAK
4	JASMITA BAMBHANIYA
5	KAPADIYA SHRIDHARKANT
6	KEVAL MAHESHKUBAR GANDHI
7	MEHULGIRI B. GOSWAMI
8	NILAM D. PANDYA
9	PADSALA ABHAY V.
10	PATEL BHAVISHA NAVINCHANDRA
11	RANJIT DEY
12	RINKAL K. KANANI
13	SINGH KALIKASINGH RAMKUVARISINGH
14	SOURAV MONDAL
15	VADGASIYA SUJITKUMAR P.
16	ZALAK DINESH JOSHI