



सरकारी बहुशैल्य संस्थान डिगलीपुर
GOVT. POLYTECHNIC DIGLIPUR
 अंडमान तथा निकोबार प्रशासन
Andaman & Nicobar Administration

Recruitment notice for Guest Lecturer Even Semester (2025-26) for

Govt. Polytechnic Diglipur

The Govt. Polytechnic Diglipur will be engaging Guest Lecturer for Diploma program. The candidates who possess the under mentioned education qualification and who are willing to work may attend the walk-in interview in below mentioned time and venue with relevant document. Preference will be given to Diglipur candidates. The candidates shall report to Academic Cell, DBRAIT 30 mins prior to the schedule time as mentioned below:

Sl.No	Name of the Post	Qualification	Date & Time	
			Practical	Theory
1.	Guest Lecturer- (Civil Engineering)	First Class B.E./B. Tech from recognized University in relevant course.	DBRAIT, Campus on 29/11/2025 at 9:00 am to 12:00 noon	DBRAIT, Campus on 29/11/2025 at 2:00 pm.
2.	Guest Lecturer- (Computer Science & Engineering)			
3.	Guest Lecturer- (Electronics /Electrical Engineering)			
4.	Guest Lecturer- (Physics / Chemistry)	First class in Master's Degree in appropriate subject with first class at Bachelor's level	DBRAIT, Campus on 29/11/2025 at 9:00 am to 12:00 noon	DBRAIT, Campus on 29/11/2025 at 3:00 pm.
5.	Guest Lecturer- (Mathematics)	First class in Master's Degree in appropriate subject with first class at Bachelor's level	---	
6.	Guest Lecturer- (English)			
7.	Guest Lecturer- (Management)			

The selection will be based on the performance of candidate in the demo class/ interview. The demo topic will be downloaded from the website <https://dbrait.andamannicobar.gov.in>. For any queries candidates may contact Govt. Polytechnic Diglipur Campus at GMSSS Sitanagar, Diglipur or Academic cell of DBRAIT, Port Blair. The selected candidate shall be paid a remuneration of max. of Rs. 1000/- per theory period and Rs. 500/- per practical period with ceiling of Rs. 25,000/- p.m.

Principal I/c, GPD

GOVT. POLYTECHNIC DIGLIPUR

DEMO TOPICS FOR GUEST LECTURER (GL) SELECTION PROCESS FOR THE SESSION 2025-26 (EVEN SEM)

S. No.	DEPARTMENT	DEMO TOPIC	
		THEORY	PRCATICAL
1	Diploma Civil (GL)	Area Calculations of field by cross staff	Basic Surveying: Chain surveying, Compass surveying and Leveling
		Compass Traversing: open and closed.	Water and waste water engineering: Physical and chemical parameters
		Local attraction, Methods of correction of observed bearings- Correction at station and correction to included angles	Construction Material testing and concrete Laboratory: Test for cement, fine aggregates ,coarse aggregates , concrete and steel
		Various types of Pressure	
		Pressure measuring devices	
		Types of Fluid Flow	
		Estimating, Types and purpose, costing, Administrative Approval, Technical Sanction and Budget provision.	
		Preparing rate analysis of different items of work: PCC, RCC work in (column, beam, lintel, slab), brick masonry, stone masonry, Vitrified tile flooring, plastering.	
		Methods of Calculation of Depreciation	
		Water Softening Methods	
		Pipe Network System	
		Sewer Appurtenance	
2	Diploma CO/IT (GL)	Fundamentals of Cryptography: Symmetric and Asymmetric Cryptography	Prepare and test straight and test cable
		Steganography	Write a C program to implement Caesar cipher technique to perform encryption and decryption of text
		TCP/IP Model	Write a C program for parity check error detection
		Subnetting (Classful & Classless)	Preperation of result sheet in excel
		User requirements & its Analysis Techniques	Write a C program to craetes strong password authentication [password should be more than 8 characters and combination of digits, letters and special character (#, %, &, @)]
		Generative AI	
		Blockchain Technology	
		Need and features of Android	

		Android architecture framework	
		Acceptance testing : Alpha, Beta testing	
		Regression testing	
3	Diploma ECE (GL)	Architectures of Microcontroller: Harvard , Von Neumann.	ALP to perform addition of BCD data
		Memory Organization and Power saving options of 8051 Microcontroller	Block exchange of data from source locations to destination location
		Line-of-Sight Transmission, Point-to-Point, Broadcast	Amplitude Shift Keying(ASK) using any simulator
		Circuit-switched network, Packet switched network	Write a 'C' program for parity check error detection
		GPRS network nodes, mobility management and routing in GPRS	Implement line coding technique Unipolar NRZ using MATLAB and Simulink
		Features and services of International mobile telecommunications 2000 (IMT-2000)	Build and Test the full wave rectifier using two diodes.
		General troubleshooting procedure	Troubleshooting the regulated power supply by testing the voltage at different output points.
		Grounding and Shielding systems in electronic equipment	Test input /output characteristics of NPN transistor in CE configuration
4	Diploma EE (GL)	Mesh/ Nodal Analysis	Verification of Kirchoff's laws
		RLC series circuit & circuit resonance	Measurement of power in single phase AC circuit
		Measurement of single phase power using dynamometer wattmeter	Measurement of three phase power by two wattmeter method
		Construction and working principle of transformer	Load test on single phase transformer
		Parallel operation of transformer	Open circuit and short circuit test of single phase transformer
		Voltage regulation of alternator	Load test on three phase induction motor
		Construction and working of Buchholz Relay	Staircase wiring
		Different types of line insulators in transmission & distribution system	Go down wiring
5	Physics (GL)	Determination of Young's modulus of given wire.	types of moduli of elasticity
		Determination of force constant using helical spring	Newton's laws of motion, and their applications
		Determination of acceleration due to gravity by using simple pendulum .	Stress -Strain diagram, Poisson's ratio, factors affecting elasticity
		Determination of I-V characteristics of photoelectric cell.	Resonance , Application of resonance
		Determination of I-V characteristics of LDR.	Ultrasonic waves, properties of ultrasonic waves.
6	Chemistry (GL)	Metallurgy and its different steps	To determine the pH value of solutions using pH meter and universal indicator

		Definition of Corrosion, its mechanism, types and methods of protections	Determine thinner content in oil paint
		Protective coating and its types in terms of corrosion	Identification of Cation in given salt sample
		Waste water treatment.	Identification of Anion in given salt sample
		Hardness of water, its types and methods of removal	Estimation of available chlorine in bleaching powder
		Chemical Bonding- Ionic, covalent and Coordinate bonds	Estimate the chlorine content of given water sample
		Polymers, its classification and applications.	Estimation of magnesium by EDTA
		Desalination process – reverse osmosis and electrodialysis	Determination of carbonates and bicarbonates in water
7	Maths (GL)	Solve given system of linear equations using matrix in version method	
		Derivative of composite functions (chain rule), implicit and parametric functions	
		Functions and limit : Concept of functions and simple examples	
		Integration by parts	
		Derivatives of composite, implicit, parametric, inverse, logarithmic, exponential functions	
		Solution of linear differential, equation of first order	
		Binomial & poisson's distribution in probability	
		Find partial fraction of proper and improper fraction of simple rational function	
8	English (GL)	Formulate paragraphs with synchronised sentence structure on the given situation/topic	
		Dairy entry of situations	
		preparation skill- body language for effective communication	
		Paragraph writing	
		Develop dialogues to practice language skill in a structured and meaningful way	
		Formulate sentences using new words	
		Use correct syntax to construct meaningful sentences for the given situation	
		Dialogue writing	

9	Management (GL)	Describe the new product development process for a product/service	
		Explain the significance of the project management and various tools of project management	
		Importance of various techniques for optimization and waste minimisation	
		Importance of need, wants and desires in marketing	
		Interpret the traditional and digital marketing techniques	
		Analyze the various methods of recruitment, selection and training for an organization	
		Explain categorization of MSME on the basis of turnover and investment	
		Role of the incubation centre and accelerators for the given product/service	