



RECRUITMENT NOTICE FOR GAP, GL & PTI (2025-26 Odd) - DBRAIT

Selected candidates shall be eligible for an amount of Rs.1500/- per hr for theory and Rs.750/- per hr for practical classes not exceeding Rs.50,000/- per month for GAP (Degree Program). Selected candidates shall be eligible for an amount of Rs.1000/- per hr for theory and Rs.500/- per hr for practical classes not exceeding Rs.25,000/- per month for Guest Lecturer (Diploma Program). For Part Time Instructor, Rs.750/- per day for the practical classes not exceeding Rs.18,000/- per month. Selection will be based on the performance of the candidates in the Demo theory and practical class. **The candidates shall report to the ACADEMIC CELL at least 30 minutes prior to the scheduled time.**

S. No	Details of requirement	Educational Qualification	Date and time	
			Practical	Theory
1	Guest Assistant Professor (Civil)	First class B.E./B.Tech., and M.E/M.Tech from recognized university in relevant course OR Ph.D in Engineering	28.07.2025 9:30 am to 12:00 noon	28.07.2025 02:30 pm to 03:00 pm
2	Guest Lecturer (CO/IT)	First class B.E./B.Tech., from recognized university in relevant course	28.07.2025 9:30 am to 12:00 noon	28.07.2025 03:00 pm to 03:30 pm
3	Guest Lecturer (Physics)	First class Master's Degree in appropriate subject with first class at Bachelor's level	28.07.2025 9:30 am to 12:00 noon	28.07.2025 03:00 pm to 03:30 pm
4	Guest Assistant Professor (Music)	First class Master's degree in relevant field from a recognized University	29.07.2025 9:30 am to 12:00 noon	29.07.2025 02:30 pm to 04:00 pm
5	Part Time Instructors (CO/IT & HM)	Bachelor Degree in relevant field from a recognized university OR Diploma in relevant field from a recognized university/ Board OR Senior secondary pass(10+2) in Science subject from a recognized educational/Technical Institution OR Senior secondary pass(10+2) with vocational course certificate in an appropriate trade with 3 years practical experience	28.07.2025 9:30 am to 12:00 noon	-----


Dean (Academics)

DR. B R AMBEDKAR INSTITUTE OF TECHNOLOGY, PORT BLAIR

DEMO TOPICS FOR GUEST FACULTY & PTI SELECTION PROCESS FOR THE SESSION 2025-26 (ODD SEM)

S.NO.	DEPARTMENT	DEMO TOPIC	
		THEORY	PRACTICAL
1	CO/IT (GL)	Operation System (a) CPU Scheduling Algorithm - FCFS, SJF, Priority, Round Robin (b) Memory Management - Swaping, Compaction, Fragmentation, Partitioning Algorithm (First Fit, Best Fit, Worst Fit), Non Contiguous Memory Management Technique (Paging, Segmentation) Advance Computer Network (a) Routing Protocols - Intradomain Routing (Distance Vector Routing), Link State Routing (OSPF), Interdomain Routing (Path Vector Routing - BGPv4) Data Structure using C (a) Searching - Linear Search & Binary Search (b) Sorting - Selection Sort, Insertion Sort (c) Linked list - Signly Linked list Object Oriented Programming using C++ (a) Constructor and Destructors (b) Inheritance (c) Polymorphism Computer Graphics (a) Line Drawing Algorithm - DDA Algorithm, Bresenham Algorithm (b) 2D Transformation (c) 3D Transformation Fundamentals of Pythom Programming (a) Python - List, Set, Tuple, Dictionary (b) Functions in Python - User defined functions (c) Python Packages - NumPy, Matplotlib	Write a C / Python Program to calculate average waiting time and turn around time of n processes with first come first serve CPU scheduling algothrim. Write a C / Python Program to calculate average waiting time and turn around time of n processes with shortest job first CPU scheduling algothrim. Implement RIP in CISCO packet tarcer Subnetting Implement sorting algothrim in C Algothrim program in C using linked list Write program in C++ for parameterized constructor Write program in C++ for copy constructor Write a programs using single level inheritance Write a programs using multi level inheritance Write a C program to draw line using DDA algorithm Write a C prgram to draw a line using Bresenham Algorithm Formula and functions in worksheet Write a program in Python to accept the 3 sides of a triangle to check whether the triangle is isosceles, equilateral, right angled triangle Write a Python program by taking users input to find the area of the rectangle and find the area of circle Developed Python program top perform following operations on Tuples - Create, access, update, delete tuple elements
2	Physics (GL)	Ultrasonic Wave Production Lasers and fibre optics Air wedge- Michelson's interferometer Work, Energy and Power Nanomaterials- its synthesis, Properties and Application Photo-electric Effect Semiconductor Applications of semiconductor Super conductors and its application Magnetic field and magnetic field Intensity	Determination of thickness of given piece of sample by air wedge method Determination of wavelength of monochromatic light by using diffraction grating Determination of elasticity of a metallic wire by using searle's apparatus Determine the modulus of rigidity by using torsional pendulum Determination of law resistance by using meter bridge Determination of velocity of sound by resonance column To determine the radius of curvature of a planoconvex lens using newton's ring apparatus To determine the refractive index of glass prism by using Pin method To determine the internal resistance of primary cell by using potentiometer To calculate the magnetic moment and pole strength of a bar magnet by using vibration magnetometer.
3	Civil (GAP)	Engg Materials, Types of Constructions, Earthquake Resistant Building	GIS, material Science

DEMO TOPICS FOR PART TIME INSTRUCTOR SELECTION PROCESS FOR THE SESSION 2025-26 (ODD SEM)

S.No.	Department	Topic
1	CO / IT	Network cabling Setup wifi Assemble & disassemble of various parts of Computer System OS installation C Program on pointers, structur and file management C++ Program on class, overloading, inheritance Data structure using C - Tree traversal Data structure using C - Bubble sorting, radix sorting Mail merge Prepearion of result sheet in Excel
2	Hotel Management	Plan & prepare a O3 course menu of your choice which should include a starter veg/non veg, one main course & a dessert Plan & prepare a O5 course continental menu & lay the table according to it Prepare a flower arrangement as per the theme given Plan & prepare a role play for a fussy guest