



अंडमान तथा निकोबार प्रशासन
ANDAMAN & NICOBAR ADMINISTRATION
डॉ. भीमराव अंबेडकर प्रौद्योगिकी संस्थान
Dr. B.R. AMBEDKAR INSTITUTE OF TECHNOLOGY
(NAAC ACCREDITED)

पहाड गाँव पोर्ट ब्लेयर
अंडमान तथा निकोबार द्वीप समूह

PAHARGAON, PORT BLAIR- 744103
ANDAMAN & NICOBAR ISLANDS



Recruitment Notice for Guest AP, Guest Lecturers, PTI

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 venue for theory demo will be Audio Visual Room (AV Room) of the Institute and practical skill test will be conducted by the concerned departments.

S. No.	Details of requirement	Educational Qualification	Date and time	
			Practical	Theory
1	Guest Lecturer (Maths)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-----	11.12.2023 2:00 pm to 2:30 pm
2	GAP & GL (Management)		-----	11.12.2023 2:30 pm to 3:00 pm
3	Guest Lecturer (Civil)	First class B.E./B.Tech., from recognized university in relevant course	11.12.2023 9:30 am to 11:30 am	12.12.2023 2:00 pm to 2:30 pm
4	Guest Lecturer (ME)			12.12.2023 2:30 pm to 3:00 pm
5	Guest Lecturer (Electrical)			12.12.2023 3:00 pm to 3:30 pm
6	Guest Lecturer (ECE)			13.12.2023 2:00 pm to 2:30 pm
7	Guest Lecturer (CO/IT)			13.12.2023 2:30 pm to 3:00 pm
8	Guest Lecturer (HM)	First class Degree in Hotel Management & Catering Technology with 1 year Experience Or First class Diploma in Hotel Management and catering technology with 2 years' experience		13.12.2023 3:00 pm to 3:30 pm
9	Part time Instructors (CSE & CO/IT)	Bachelor Degree in relevant field from a recognised university OR Diploma in relevant field from a recognised university/ Board OR Senior secondary pass(10+2) in Science subject from a recognised educational/ Technical Institution OR Senior secondary pass(10+2) with vocational course certificate in an appropriate trade with 3 years practical experience	11.12.2023 9:30 am to 11:30 am	-----

Dean (Academics)

DR. B R AMBEDKAR INSTITUTE OF TECHNOLOGY, PORT BLAIR

DEMO TOPICS FOR GUEST FACULTY SELECTION PROCESS FOR THE SESSION 2023-24 (EVEN SEM)

S.NO.	DEPARTMENT	DEMO TOPIC	
		THEORY	PRACTICAL
1	ECE (GL)	<ul style="list-style-type: none"> Full wave rectifier with filter clipper & clamper circuit CE transistor characteristics Working of sensor & transducer and active and passive transducer. 	<ul style="list-style-type: none"> Build/ Test full wave rectifier bridge Build/ test the combinational clipper circuit Test the performance of FET Drain characteristic transfer characteristic and calculate transductance.
		<ul style="list-style-type: none"> Wireless local loop architecture GPRS architecture. 	<ul style="list-style-type: none"> Use AT Commands to understand working of 3G Networking using 3G mobile phone & trainer kit, Simulate the Delta modulation using MAT LAB and Simulink
		<ul style="list-style-type: none"> LVDT & RVDT Strain guage. 	<ul style="list-style-type: none"> Use of strain guage to measure weights Measure displacement using LVDT
		<ul style="list-style-type: none"> Implement - 4 bit ripple counter and 7476 Perform 8 bit addition. 	<ul style="list-style-type: none"> 8051 architecture Master Slave JK flipflop 4 Bit Asynchronous counter
		<ul style="list-style-type: none"> DC Regulator power supply, PN junction & zener diode characteristic. 	<ul style="list-style-type: none"> Build/test zener voltage regulator for the given voltage. Characteristic of Zener diode
		<ul style="list-style-type: none"> 8086 microprocessor-sailent features pin description, Memory segmentation,Physical memory address generation, Machine language instruction instruction format, Addressing mode, model 8086 assembly language program, Programming using assembler: Arithmetic operation on Hex and BCD number, Sum of series, smallest and largest number from array, sorting numbers in ascending and decemding order. 	<ul style="list-style-type: none"> write an Assembly language program (ALP) to subtract two given 8 and 16 bit numbers. Write an APL to perform block transfer data using string instructions. Write an APL to find sum of series of hexadecimal numbers Write an assembly language program using macros: a) write an APL for addition, subtraction, multiplication and division.
			<ul style="list-style-type: none"> Simulate/ test half wave rectifier circuit using EDA tools. troubleshoot the regulated power supply circuit of the given equipment. Simulate 4:1 MUX 3 Bit adder 1:8 demultiplexer using EDA tool
2	CIVIL (GL)	<ul style="list-style-type: none"> Repair and maintenance of structure a) Types of cracks and method of repair b) Materials for maintenance and repair c) Causes of damages in structure 	<ul style="list-style-type: none"> Contract Technology a) Test for aggregates (course and fine) b) Test for cement c) Test for concrete
		<ul style="list-style-type: none"> Building drawing and planning a) Principles of planning b) Preparation of plans c) Perspective drawing 	<ul style="list-style-type: none"> Building drawing and planning a) Preparing various types of plan and section for a framed structure building
		<ul style="list-style-type: none"> Concrete Technology a) Properties of concrete b) Methods of testing c) Mix design 	<ul style="list-style-type: none"> Concrete Technology a) Chain surveying b) Compass surveying c) Levelling

3	EE (GL)	Mesh / Nodal analysis	Verification of Kirchoff's laws
		RLC series circuit and 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
		Different types of three phase induction motors	Straight joint and T-joint
Over current and earth fault protection of Alternators	Starting and running of single phase induction motor in forward and reverse direction		
4	CO/IT (GL)	<ul style="list-style-type: none"> • Concept of RDBMS Relation, Attribute, Domain, Cardinality, Degree, Properties of RDBMS • Database Security Introduction, Need of Database security, types of database Users 	<ul style="list-style-type: none"> • Create and execute DDL commands. • Create and execute DML commands.
		<ul style="list-style-type: none"> • Arrays and String • Structure and Union 	<ul style="list-style-type: none"> • Programs on Array. • Programs on String. • Programs on Structures.
		<ul style="list-style-type: none"> • Software Requirement Engineering Need of SRS, formats and its characteristics 	
		<ul style="list-style-type: none"> • Data structures in Python List, Tuple 	<ul style="list-style-type: none"> • Implement various operations of Tuple in Python. • Implement Various operations of List in Python.
		<ul style="list-style-type: none"> • Concepts of Artificial Intelligence • Concept of Machine Learning 	

5	ME (GL)	Angle of projections. (Both 1 st & 3 rd)	Conic sections
		Development of surfaces	Isometric projections
		Losses in pipe line flow	Orthographic projection in AUTO CAD
		Mechanical drives system	Verification of Bernoulli's Theorem
		Theories of failures	Determination of friction factor
		Second law of thermodynamics	Linear measurement of Vernier Calliper
		Working principle of differential units	Angular measurement by sine bar and slip gauges
		Working of electro discharge machining	Measures screw thread's parameters using profile projector
		Basis mechatronics systems	Determination of MA, VR, efficiency, ideal effort and effort lost in friction state and justify whether machine is reversible or not for a given single purchase crab winch
		Hydraulic and pneumatic system	Determine the MA, VR, efficiency, ideal effort and effort lost in friction state and justify whether machine is reversible or not for a given differential wheel and axle
6	MATHS (GL)	Differentiation of implicit function	
		Lagrange method of undetermined multipliers	
		Area by double integration and volume by triple integration	
		First order linear differential equations	
		Partial fraction of proper and improper fraction	
		Reduction of quadratic form into conical by orthogonal transformation	
		Expansion of periodic function into Fourier Series	
		Solution of linear simultaneous in the three variables by crammers rule	
		Point of intersection of two lines, equation of line passing through point of intersectin with given condition	
Fourier's Transformation and its transverse			
7	MANAGEMENT (GAP & GL)	Need for instruction & direction to suordinates	
		preparation of balance sheet & profit-loss statement	
		need for safety management measures	
		planning at supervisory level- planning, detailing, and following each step	
		types of organization- steps in organizing	
		business plan preparation	
		incubation centre- role & procedure	
		Intrapreuner & entrepreneur	
		market study procedures	
		total quality management	

8	HOTEL MANAGEMENT (GL)	Food Production: methods of cooking, menu planning, kitchen stewarding, Herbs, Oriental cuisine, continental cuisine, frozen desserts, fish cookery, salad dressing & salads, stocks & sauces	Plan & prepare a 03 course menu of your choice which should include a starter veg/non veg, one main course & a dessert
		Food & Beverage service: wine classification, meals, Gin (production & examples), gueridon services, types of service, alcoholic beverage, function catering, wines of france, tobacco, distillation of sprits	Plan & prepare a 05 course continental menu & lay the table according to it
		Housekeeping: checkout & guest bill settlement, laundry, contract cleaning & renovation, interior designing, importance of selling & techniques, flower aggrangement, ecotels, polishes & polishing types used in Hotel industry, housekeeping organization chart for different types of hotels, laundry cycle	Prepare a flower arrangement as per the theme given
		Front Office: Types of hotel, types of keys, check in check out procedures, guest cycle, reservation modes and sources, types of rooms, duties & responsibilities of front office staff, food plan & modes of payments, front office organization, night auditing & role of night auditor	Plan & prepare a role play for a fussy guest

DEMO TOPICS FOR PART TIME INSTRUCTOR SELECTION PROCESS FOR THE SESSION 2023-24 (EVEN SEM)

S.No.	Department	Topic
1	CSE	C Programming Lab i) Arrays and Structures, ii) Pointers, Functions, Recursions, iii) File Handling
		OS Installations.
		Hardware and Networking.
		Creation of HTML Files
		Configuration of web servers
		Client side validation using VB Script.
		Server side programming using JSP
		Server side programming using Servlet
		Usage of: Primitive Data Types - User Defined data Types Built-in Functions-DDL, DML, TCL commands CREATE, ALTER, DROP. SELECT, INSERT, DELETE and UPDATE, COMMIT, ROLLBACK, SAVEPOINT, GRANT and REVOKE.
		Creation and execution query using PL/SQL
2	CO/IT	OS installation
		Hardware Trouble Shooting
		Network Cabling and Troubleshooting
		C Programming * Array * Structures * pointer