



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

पहाड गॉय पोर्ट ब्लेयर
अंडमान तथा निकोबार द्वीप समूह

PAHARGAON, PORT BLAIR- 744103
ANDAMAN & NICOBAR ISLANDS

ISO 9001

BUREAU VERITAS
Certification



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 AP (Degree Program) and Rs.250/- per hr for theory and Rs.125/- per hr for practical classes not exceeding Rs.10,000/- per month for Guest Lecturer (Diploma Program). For Part Time Instructor, Rs.150/- per hr for the practical classes not exceeding Rs.10,000/- 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 AV Room of the Institute.

S. No.	Details of requirement	Educational Qualification	Date and time	
			Practical	Theory
1	Guest Lecturer (CO/IT)	First class B.E./B.Tech., from recognized university in relevant course	16.08.2022 9:30 am to 11:30 am	17.08.2022 1:30 pm to 2:00 pm
2	Guest AP (English)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-----	17.08.2022 2:00 pm to 2:30 pm
3	Guest AP (Chemistry)		16.08.2022 9:30 am to 11:30 am	18.08.2022 1:30 pm to 2:00 pm
4	Guest Lecturer (Management)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-----	18.08.2022 2:00 pm to 2:30 pm

Dean (Academics)

Junglighat P.O, Pahargaon, Port Blair, A& N Islands

☎: 91-3192-250267, 251692, 251693 ☎ 91-3192-250507



DEMO TOPICS FOR GUEST AP, GUEST LECTURER AND PART TIME INSTRUCTOR DBRAIT 2022-2023
(ODD SEMESTER)

DEPARTMENT	THEORY	PRACTICAL
GL (CO/IT)	<ol style="list-style-type: none">1. Principle of database – normalization, ER model2. Advanced java programming – socket programming, AWT3. Client side scripting – function, cookies4. Data structure – stack, queue5. Computer graphics – windowing, clipping6. Operating system – memory management7. Software testing – test management, defect management8. Object oriented programming using C++ - inheritance & its types9. Advance computer network – IP addressing, transition from IPv4 to IPv610. Database management system – triggers, transaction processing	<ol style="list-style-type: none">1. Advanced java programming –<ul style="list-style-type: none">➤ Write a program to implement chat server using Server Socket & Socket class➤ Design form with components list, choice, label, checkbox, text field2. Client side scripting –<ul style="list-style-type: none">➤ Develop java script o implement function➤ Develop a webpage for creating session & persistent cookies3. Applied multimedia techniques –<ul style="list-style-type: none">➤ Design wallpaper showing water drop effects of an image➤ Design poster using different text effect➤ Develop webpage which shows animation with sound effect4. Data structure – radix sort, binary searching5. Computer graphics – DDA, Bresenham's algorithm6. Operating system – CPU scheduling (FCFS)7. Workshop practices – assemble & dissemble of various part of computer systems8. Object oriented programming using C++ -<ul style="list-style-type: none">➤ Implementing the concept of multiple inheritances based on the given scenario➤ Implement the concept of copy constructor9. Advance computer network –<ul style="list-style-type: none">➤ Configure OSPF & RIP using packet tracer➤ Establish a client-server architecture using IPv6 addressing in packet tracer



GAP (English)	<ol style="list-style-type: none"> Strategies for effective communication Comprehension of technical & non-technical materials Basics of phonetics Technical writing Presentation skills Office drafting Tenses Speeches- formulating speeches for welcome, farewell & vote of thanks Use of articles in formulating sentences Active & passive voice 	<p>10. Database management system –</p> <ul style="list-style-type: none"> Implementing trigger for insert, updating & deleting from the database Design a database based on the given requirement and execute required DML commands by following referential integrity constraints if required
GAP (Chemistry)	<ol style="list-style-type: none"> Conducting polymers – classification & application Protective coating & its types in terms of corrosion Super conductivity Dielectric polarisation & mechanism Crystal structure (all 7 types) Crystal lattice Lattice point Different types of crystal structures (with angles) Qualitative idea of line, point, surface & volume defect How to calculate coordination number & atomic radius of FCP & HCC unit cell 	<ol style="list-style-type: none"> Determine the pH value of given solution using pH meter & universal indicator Determine thinner content in oil paint Determine total hardness, temporary hardness and permanent hardness of water sample by EDTA method Standardization of KMnO4 solution using standard oxalic acid IV & determine the %age of iron present in given Hematite ore by KMnO4 solution Determination of carbonates & bicarbonates in water Determination of chloride content in a given sample of water Estimation of vinegar Estimation of available chlorine in bleaching powder Estimation of ferrous by permagnometry



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GL (Management)	<ol style="list-style-type: none">1. Preparation of balance sheet and profit-loss statement2. Functions of management3. Capital generation & management4. Budgets & its types.5. Total quality management6. Straight line method of depreciation7. Scientific management8. Scope of engineering economics9. Evaluation of public alternatives Determination of economics life of asset	10. Estimation of magnesium by EDTA
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