



अंडमान तथा निकोबार प्रशासन
ANDAMAN & NICOBAR ADMINISTRATION

डॉ. भीमराव अंबेडकर प्रौद्योगिकी संस्थान
Dr. B.R. AMBEDKAR INSTITUTE OF TECHNOLOGY
(NAAC ACCREDITED)

पहाड़ गाँव 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	27.09.2022 9:30 am to 11:30 am	27.09.2022 2:00 pm to 2:30 pm
2	Guest AP (Civil)	B.E./B.Tech., and M.E./M.Tech., in relevant course from recognized university with first class or equivalent either in B.E./B.Tech., and M.E./M.Tech.	27.09.2022 9:30 am to 11:30 am	27.09.2022 2:30 pm to 3:00 pm
3	Guest AP (CSE)		27.09.2022 9:30 am to 11:30 am	27.09.2022 2:30 pm to 3:00 pm
4	Guest AP (Chemistry)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	27.09.2022 9:30 am to 11:30 am	28.09.2022 2:00 pm to 2:30 pm
5	Guest AP (English)		-----	28.09.2022 2:30 pm to 3:00 pm
6	Guest Lecturer (Management)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-----	28.09.2022 3:00 pm to 3:30 pm
7	Part time Instructors (CSE/ECE)	Bachelor Degree of Engineering in the respective field from a recognised University OR Diploma in respective field 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	27.09.2022 9:30 am to 11:30 am	

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

Ph: 03192 - 250587, Fax: 03192 - 259225

e-mail: dbragpt.and@nic.in, Website: <https://dbrait.andaman.gov.in>



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		appropriate trade with 3 years practical experience OR 10 th passed with ITI in the relevant field passed from a recognised Institute/ Board with 3 years' experience		
9	Part time Instructors (Physics)	Bachelor Degree in Science from a recognised university 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	27.09.2022 9:30 am to 11:30 am	-----

[Signature]
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 (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 alternatives10. Determination of economics life of asset	
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)



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		<ol style="list-style-type: none">7. Workshop practices - assemble & disassemble 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 tracer10. Database management system -<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 (English)	<ol style="list-style-type: none">1. Strategies for effective communication2. Comprehension of technical & non-technical materials3. Basics of phonetics4. Technical writing5. Presentation skills6. Office drafting7. Tenses8. Speeches- formulating speeches for welcome, farewell & vote of thanks9. Use of articles in formulating sentences10. Active & passive voice	
GAP (Chemistry)	<ol style="list-style-type: none">1. Conducting polymers - classification & application2. Protective coating & its types in terms of corrosion3. Super conductivity4. Dielectric polarisation & mechanism	<ol style="list-style-type: none">1. Determine the pH value of given solution using pH meter & universal indicator2. Determine thinner content in oil paint

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	<ol style="list-style-type: none"> 5. Crystal structure (all 7 types) 6. Crystal lattice 7. Lattice point 8. Different types of crystal structures (with angles) 9. Qualitative idea of line, point, surface & volume defect 10. How to calculate coordination number & atomic radius of FCP & HCC unit cell 	<ol style="list-style-type: none"> 3. Determine total hardness, temporary hardness and permanent hardness of water sample by EDTA method 4. Standardization of KMnO₄ solution using standard oxalic acid IV & determine the %age of iron present in given Hematite ore by KMnO₄ solution 5. Determination of carbonates & bicarbonates in water 6. Determination of chloride content in a given sample of water 7. Estimation of vinegar 8. Estimation of available chlorine in bleaching powder 9. Estimation of ferrous by permagnometry 10. Estimation of magnesium by EDTA
GAP (Civil)	<ol style="list-style-type: none"> 1. Bending Stress 2. Moment distribution method 3. Environmental Engineering 4. Transportation of sewage 5. Activated sludge process 6. Flocculators 7. Contour surveying 8. Tachometric Surveying 9. One dimensional consolidation 10. Workability of concrete 11. Hydration of cement 	<ol style="list-style-type: none"> 1. Determination of quality of water 2. Test on cement 3. Test on aggregate 4. Tachometric survey 5. Compass surveying 6. Levelling 7. Test of steel
GAP (CSE)	<ol style="list-style-type: none"> 1. Computer programming – structures, arrays, pointers, functions, strings, files, and its operations and access 2. Computer Hardware & Network Troubleshooting- mother board components, bus standards, power supply, BIOS 3. Language translator – source program analysis, lexical analysis, parsing 4. Data structure & OOP – stacks, Queues, inheritance 	<ol style="list-style-type: none"> 1. Computer programming & data structure – pointers, structures, files, linked list, stack & Queues 2. Artificial intelligence lab – DFS, BFS, propositional logic, Unification, heuristics 3. Computer network & hardware trouble shooting – circuit tracing, logic analyser, assembling, disassembling, troubleshooting printer, PCI bus, USB port

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	<ol style="list-style-type: none">5. Network Protocol – Network layer protocols, data link layer protocols6. Operating system – threads, CPU scheduling, algorithms, multiple processor scheduling, real time scheduling, section problem, synchronization hardware, semaphores, classic problems of synchronization, critical regions, monitors7. Computer Organization & Architecture – I/O devices, interrupts & its types, uses, functions, handling multiple devices, Pentium interrupt structure, DMA, buses, interface circuits, standard I/O interfaces	
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Demo Topics for Part Time Instructors

DEPARTMENT	PRATICAL TOPICS
CSE	<ol style="list-style-type: none">1. OS installation2. Hardware trouble shooting3. Network cabling & trouble shooting4. C programming – array, structures, pointers
ECE	<ol style="list-style-type: none">5. Design full and half adder6. Build/test function od SR flip flop using NAND gate7. Construct SR, JK, D & T flip flop and verify its truth table8. Identify pins of 8051 & AVR microcontroller9. Execute 'C' program to perform following arithmetic operations on 8-bit data – addition , subtraction, multiplication & division10. Develop & test a 'C' program to perform data transfer from source to destination (use internal memory locations)11. Develop & test a 'C' program to turn ON LEDs with Key(s) press



	convex lens, by forming Newton's rings
	4. Determine the specific resistance of given wire
	5. Use Searle's method to determine the Young's modulus of given wire
	6. Determination of radius of curvature of a planoconvex lens by using Newton's ring method
	7. To determine the refractive index of a glass prism by using pin method
	8. Vibration magnetometer – calculation of magnetic moment & pole strength
	9. To determine the co-efficient of viscosity of the given liquid by using stokes method
	10. To determine the buoyancy force on solid immersed in liquid (Archimedes principle)

Dean (Academic)