



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

पहाड गीव 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 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). 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	22.08.2022 9:30 am to 11:30 am	23.08.2022 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	-----	25.08.2022 2:00 pm to 2:30 pm
3	Guest AP (Chemistry)		22.08.2022 9:30 am to 11:30 am	24.08.2022 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	-----	24.08.2022 2:00 pm to 2:30 pm

Dean (Academics)



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

DEPARTMENT	THEORY	PRACTICAL
GL (CO/IT)	<ol style="list-style-type: none"><li>1. Principle of database - normalization, ER model</li><li>2. Advanced java programming - socket programming, AWT</li><li>3. Client side scripting - function, cookies</li><li>4. Data structure - stack, queue</li><li>5. Computer graphics - windowing, clipping</li><li>6. Operating system - memory management</li><li>7. Software testing - test management, defect management</li><li>8. Object oriented programming using C++ - inheritance &amp; its types</li><li>9. Advance computer network - IP addressing, transition from IPv4 to IPv6</li><li>10. Database management system - triggers, transaction processing</li></ol>	<ol style="list-style-type: none"><li>1. Advanced java programming -<ul style="list-style-type: none"><li>➤ Write a program to implement chat server using Server Socket &amp; Socket class</li><li>➤ Design form with components list, choice, label, checkbox, text field</li></ul></li><li>2. Client side scripting -<ul style="list-style-type: none"><li>➤ Develop java script o implement function</li><li>➤ Develop a webpage for creating session &amp; persistent cookies</li></ul></li><li>3. Applied multimedia techniques -<ul style="list-style-type: none"><li>➤ Design wallpaper showing water drop effects of an image</li><li>➤ Design poster using different text effect</li><li>➤ Develop webpage which shows animation with sound effect</li></ul></li><li>4. Data structure - radix sort, binary searching</li><li>5. Computer graphics - DDA, Bresenham's algorithm</li><li>6. Operating system - CPU scheduling (FCFS)</li><li>7. Workshop practices - assemble &amp; dissemble of various part of computer systems</li><li>8. Object oriented programming using C++ -<ul style="list-style-type: none"><li>➤ Implementing the concept of multiple inheritances based on the given scenario</li><li>➤ Implement the concept of copy constructor</li></ul></li><li>9. Advance computer network -<ul style="list-style-type: none"><li>➤ Configure OSPF &amp; RIP using packet tracer</li><li>➤ Establish a client-server architecture using IPv6 addressing in packet tracer</li></ul></li></ol>



		<p>10. Database management system –</p> <ul style="list-style-type: none"> <li>➤ Implementing trigger for insert, updating &amp; deleting from the database</li> <li>➤ Design a database based on the given requirement and execute required DML commands by following referential integrity constraints if required</li> </ul>
<p>GAP (English)</p>	<ol style="list-style-type: none"> <li>1. Strategies for effective communication</li> <li>2. Comprehension of technical &amp; non-technical materials</li> <li>3. Basics of phonetics</li> <li>4. Technical writing</li> <li>5. Presentation skills</li> <li>6. Office drafting</li> <li>7. Tenses</li> <li>8. Speeches- formulating speeches for welcome, farewell &amp; vote of thanks</li> <li>9. Use of articles in formulating sentences</li> <li>10. Active &amp; passive voice</li> </ol>	
<p>GAP (Chemistry)</p>	<ol style="list-style-type: none"> <li>1. Conducting polymers – classification &amp; application</li> <li>2. Protective coating &amp; its types in terms of corrosion</li> <li>3. Super conductivity</li> <li>4. Dielectric polarisation &amp; mechanism</li> <li>5. Crystal structure (all 7 types)</li> <li>6. Crystal lattice</li> <li>7. Lattice point</li> <li>8. Different types of crystal structures (with angles)</li> <li>9. Qualitative idea of line, point, surface &amp; volume defect</li> <li>10. How to calculate coordination number &amp; atomic radius of FCP &amp; HCC unit cell</li> </ol>	<ol style="list-style-type: none"> <li>1. Determine the pH value of given solution using pH meter &amp; universal indicator</li> <li>2. Determine thinner content in oil paint</li> <li>3. Determine total hardness, temporary hardness and permanent hardness of water sample by EDTA method</li> <li>4. Standardization of KMnO<sub>4</sub> solution using standard oxalic acid IV &amp; determine the %age of iron present in given Hematite ore by KMnO<sub>4</sub> solution</li> <li>5. Determination of carbonates &amp; bicarbonates in water</li> <li>6. Determination of chloride content in a given sample of water</li> <li>7. Estimation of vinegar</li> <li>8. Estimation of available chlorine in bleaching powder</li> <li>9. Estimation of ferrous by permagnometry</li> </ol>



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GL (Management)	<ol style="list-style-type: none"><li>1. Preparation of balance sheet and profit-loss statement</li><li>2. Functions of management</li><li>3. Capital generation &amp; management</li><li>4. Budgets &amp; its types.</li><li>5. Total quality management</li><li>6. Straight line method of depreciation</li><li>7. Scientific management</li><li>8. Scope of engineering economics</li><li>9. Evaluation of public alternatives</li></ol> Determination of economics life of asset	10. Estimation of magnesium by EDTA
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Junglighat P.O, Pahargaon, Port Blair, A& N Islands

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