



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 and Guest Lecturers

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	Course	Educational Qualification	Date and time	
				Practical Skill Test	Theory Demo
1	Guest AP (Mathematics)	Degree	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	---	01/11/2021 1:00 pm to 1:30 pm
2	Guest AP (Civil Engineering)		B.E./B.Tech. and M.E./M.Tech. Civil Engg. from recognized university with first class or equivalent either in B.E./B.Tech. or M.E./M.Tech	01/11/2021 9:00 am to 11:00 am	01/11/2021 1:30 pm to 2:00 pm
3	Guest AP (Chemistry)		First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	01/11/2021 9:00 am to 11:00 am	01/11/2021 2:00 pm to 2:30 pm
4	Guest AP (Computer Science & Engineering)		B.E./B.Tech. and M.E./M.Tech. Computer Science Engg. From recognized university with first class or equivalent either in B.E./B.Tech., or M.E./M.Tech.	01/11/2021 9:00 am to 11:00 am	02/11/2021 1:00 pm to 1:30 pm
5	Guest Lecturer (Computer Science / Information Technology)	Diploma	First class B.E./B.Tech. from recognized university in relevant course	01/11/2021 9:00 am to 11:00 am	02/11/2021 1:30 pm to 2:00 pm
6	Guest Lecturer (ECE)			01/11/2021 9:00 am to 11:00 am	02/11/2021 2:00 pm to 2:30 pm
6	Part time Instructors ECE	Diploma	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 OR 10 th passed with ITI in the relevant field passed from a recognised Institute/ Board with 3 years' experience	01/11/2021 9:00 am to 11:00 am	-----

Dean (Academics)



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Demo topics for Guest AP and Guest Lecturer DBRAIT 2021-22

DEPART- MENT	DEGREE (Theory)	Degree (Practical)	Diploma (Theory)	Diploma(Practical)	PTI
Civil	1. Structural engineering - a) mechanics of solids - 1 - bending stresses b) structural analysis 1 - moment distribution method 2. Environmental engineering :- Transportation of sewage 3. Geotechnical engineering 1:- One dimensional consolidation	1. Determination of quality of water 2. Test on cement / aggregate 3. Tacheometric survey 4. Test of steel			
CSE	1. Computer Programming a) Recursion and arrays b) Pointers c) User defined data types 2. Computer Hardware and network trouble shooting a) Desktop versus Laptop motherboards. b) Connectors – Switches- RTC/NVRAM batteries. c) Interrupts- DMA channels- I/O port addresses 3. Language Translator a) Compilers- analysis of the source program-phases of a computer b) Context free grammars c) A language for specifying lexical analyzer	1. Computer Network Lab i. Creation of a socket between two computers and enable file transfer between them. Using (a.) TCP (b.) UDP ii. Creation of a socket between two computers and enable file transfer between them. Using (a.) TCP (b.) UDP iii. Broadcast /Multicast routing 2. Artificial Intelligence Lab i. Water Jug Problem using DFS, BFS ii. Representation of Knowledge using Propositional Logic and Querying iii. Forward chaining and Backward chaining 3. Computer Network and Hardware Troubleshooting i. Assembling of a Personal Computer ii. Circuit Tracing iii. Interfacing a timer/programmable I/O using PCI bus 4. Platform Technology Lab i. Exception Handling, Multi-Threading in C#.Net ii. Database controls in VB.Net iii. Delegates in VB.Net and C#.Net 5. Computer Programming Lab i) Recursion and Arrays ii) Pointers iii) User defined data types, files handling	1. Advance Java Programming:- Delegation Event Model, Event sources, Event Listener Socket Programming. 2. Object Oriented Programming Using C++ :- Polymorphism in C++, File Operations 3. Data Structure Using 'C':- Tree traversal.	1. Advance Java Programming:- Develop Program in java for client server communication. 2. Object Oriented Programming Using C++ :- Develop programs for Operator overloading and function overloading. 3. Data Structure Using 'C':- Develop program in C for various operations on a singly linked list. 4. Fundamental of ICT :- Mail merge 5. Workshop Practices :- Cabling, Assemble and Disassembly of PC.	

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Mathematic	<ol style="list-style-type: none"> 1. Lagrange method of undetermined multipliers 2. Area by double integration and volume by triple integration 3. First order linear differential equations 4. Partial fraction of proper and improper fraction. 5. Expansion of periodic function into Fourier series 6. Solutions of linear simultaneous in the three unknown by Cramer's rule. 7. Point of intersection of two lines, equation of line passing through point of intersection with given condition 				
Chemistry	<ol style="list-style-type: none"> 1. Hardness Of Water 2. Polymer Properties 3. Vulcanization –Synthetic Rubber 4. Chemical and Electrochemical corrosion 5. Desalination process- reverse osmosis and Electrolysis 6. Moulding constituent of plastics and moulding techniques 7. Primary and secondary cells 8. Types of polymerization 9. Reactions 	<ol style="list-style-type: none"> 10. To determine the pH value of solution using pH meter and universal Indicator 11. Estimation of available chlorine in Bleaching powder 12. Determination of carbonates and bi carbonates in water 13. determination of percentage of iron present given Hematite ore by KMnO4 Solution 14. Determination of Hardness of the sample water by EDTA method 			
ECE			<ol style="list-style-type: none"> 1.Embedded Systems <ol style="list-style-type: none"> a) Characteristics, function & features of real time operating system b) Communication protocols. 2.Digital Techniques <ol style="list-style-type: none"> a) Modulo N counter using IC 7490 b) Master slave JK flip flop c) 4 bit ripple counter 3.Control System <ol style="list-style-type: none"> a) Control system and its classification b) Block diagram of process control system and its control action 4. Basic Electrical & Electronics Engg. <ol style="list-style-type: none"> a) Input and output characteristics of CE, CB and CC transmitter configuration. 5.Data Communication <ol style="list-style-type: none"> a) OSI model layered architecture b) CRC error detection code c) Features of 4G and VoLTE. 	<ol style="list-style-type: none"> 1.Embedded Systems <ol style="list-style-type: none"> a) Execute the 'C' program to perform 8 bit addition b) Write a C program for 8 bit subtraction and execute it. c) Execute a C program to perform 16 bit addition 2.Digital Techniques <ol style="list-style-type: none"> a) Verify D and T flip flop b) Construct decade counter using IC 7490 c) Implement 4 bit ripple counter using IC 7476 d) Add two 8 bit numbers 3. Control System <ol style="list-style-type: none"> a) Use PID controller to control temperature of given process. b) Write the performance of transmitter amplifier circuit (use any configuration) c) Test the performance of PN diode and zener diode characteristics 	<ol style="list-style-type: none"> 1.To characteristics of JFET <ol style="list-style-type: none"> (a) Determination of output and transfer characteristics. (b) Determination of voltage gain , current gain , input and output resistance from the characteristics. 2. To design of 8 bit processor for block operation using 8085 microprocessor. 3. To realization of 8 bit magnitude comparator using 4 bit magnitude comparator ICs. 4. To design and testing of biasing circuit (i) Fixed Bias (ii) Collector to base Bias (iii) Self Bias.

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