Recruitment Notice for Guest Lecturer

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). 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.

1. FOR DBRAIT, PORT BLAIR:

S. No	Details of requirement	Educational Qualification	Date and time		Venue
			Practical	Theory	
1	Guest Lecturer (English)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-------	13.08.2024 02:00 pm to 03:00 pm	DBRAIT, Port Blair
2	Guest Lecturer (Physics)		13.08.2024 9:00 am to 12:00 noon		

2. FOR GOVT. POLYTECHNIC DIGLIPUR, DIGLIPUR:

S. No	Details of requirement	Educational Qualification	Date and time	Venue
			Practical & Theory	
1	Guest Lecturer (Physics/ Chemistry)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	13.08.2024 10:00 am	GPD, Diglipur
2	Guest Lecturer (CSE)	First class B.E./B.Tech., from recognized university in relevant course		

9/8/24

Dean (Academics)

DR. B R AMBEDKAR INSTITUTE OF TECHNOLOGY, PORT BLAIR

DEMO TOPICS FOR GUEST FACULTY SELECTION PROCESS FOR THE SESSION 2024-25 (ODD SEM)

S.NO.	DEPARTMENT	DEMO TOPIC	
		THEORY	PRACTICAL
1	CO/IT (GL)	**DATABASE MANAGEMENT** Concept of Normalization (a) Functional Dependency (b) Database Anamoly (c) Normalization types Entity & Re;ationship Model (a) Entities (b) Releationship (c) Attributes Transaction in DBMS (a) ACID properties (b) States of transaction (c) Database backup	(a) Create & execute DDL commands (b) Create & execute DML commands (c) Solve queries using operator, function etc. (d) Implement programs in C++ using array of object (e) Implement programs in C++ using constructor and destructor (f) Shell programming using if, else, for statement (g) Implement programs in C using array (h) Implement programs in C using linked list
		COMPUTER GRAPHICS Line Drawing Algorithm (a) DDA algorithm (b) Bresanham's algorithm 2-D Transformation 3-D Transformation	
		OOPs (a) Constructors and Destructors (b) Classes and Objects	
		OPEARTING SYSTEM CPU Scheduling Algorithm (a) FCFS (b) SJF (c) Priority (d) Round Robin	
		DATA STRUCTURE (a) Concept fo ADT. (b) Array (c) Linked List	
7	Physics (GL)	1. Ultrasonic Wave Production 2. Lasers and fibre optics 3. Air wedge- Michelsion's interferometer 4. concept of double refraction 5. Nanomaterials- its synthesis, Properties and Application 6. Non destructive testing of materials 7. Nuclear Reactor 8. Application of Hall effect in the semiconductor 9. Super conductors and its application 10. Magnetic field and magnetic field Intensity	1. To study the coefficient of thermal conductivity of bad conductor by using Lee's disc method/ 2. Determination of thickness of given piece of sample by airwedge method 3. Determination of wavelength of monochromatic light by using diffraction grating 4. Determination of elasticity of a metallic wire by using searle's apparatus 5. Determination of law resistance by using meter bridge\determination of velocity of sound by resonance column 6. To determine the radius of curvature of a planoconvex lens using newton's ring apparatus 7. To determine the refractive index of glass prism by using Pin method 8. To determine the buoyancy force on solid immersed in liquid(Archemedies principle) 9. To determine the internal resistance of primary cell by using potentiometer 10. To calculate the magnetic moment and polestrenth of a bar magnet by using vibration magnetometer.

8	Chemistry (GL)	1. Conducting polymers – classification and application 2. Protective coating and its types in terms of corrosion 3. Vulcanization –Synthetic Rubber 4. Super conductivity 5. Desalination process- reverse osmosis and Electrodyalisis 6. Moulding constituent of plastics and moulding techniques 7. Different types of crystal structures with angle. 8. Qualititive idea of line, point surface and volume defect 9. How to calculate Co-ordination number and atomic radius of FCP and HCC unit cells 10. Dielectric polarization and Mechanism	1. To determine the pH value of solution using pH meter and universal Indicator 2. Determine thinner content in oil paint 3. Estimation of vinegar 4. Estimation of available chlorine in Bleaching powder 5. Estimate the chlorine content of given water sample 6. Estimation of magnesium by EDTA 7. Determination of carbonates and bi carbonates in water 8. determination of percentage of iron present given Hematite ore by KMno4 Solytion 9. Determination of Hardness of the sample water by EDTA method 10. Estimation of ferrous by permagnometry
9	English (GL)	1. Strategies of effective communication 2. Importance of public speaking 3. passage in written and spoken form 4. comprehension of technical and non technical materials 5. Active and Passive Voice 6. Importance Of Comprehension 7. Phonetics 8. use of modern office equipments and gadgets 9. Types of communication 10. Use of articles in formulating sentences.	