



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 (Management & Accounts)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-----	12.07.2022 1:30 pm to 2:00 pm
2	Guest Lecturer (EE & ECE)	First class B.E./B.Tech., from recognized university in relevant course	12.07.2022 9:30 am to 11:30 am	12.07.2022 2:00 pm to 3:00 pm
3	Guest Lecturer (Civil & CO/IT)		12.07.2022 9:30 am to 11:30 am	13.07.2022 1:30 pm to 2:30 pm
4	Guest AP (ME)	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.	12.07.2022 9:30 am to 11:30 am	13.07.2022 2:30 pm to 3:00 pm
5	Guest Lecturer (Hotel Management)	First class Degree in Hotel Management & Catering Technology with 1 year Experience Or First class Diploma in Hotel Management and catering technology with 2 years' experience	12.07.2022 9:30 am to 11:30 am	13.07.2022 3:00 pm to 3:30 pm
6	Guest Lecturer (Hygiene and Nutrition)	First class Master's Degree in Hygiene and Nutrition	12.07.2022 9:30 am to 11:30 am	
7	Guest AP (Maths)	First class Master's Degree in appropriate subject with first class or equivalent at Bachelor's or Master's level	-----	14.07.2022 1:30 pm to 2:00 pm
8	Guest AP (English)		-----	14.07.2022 2:00 pm to 2:30 pm
9	Guest AP (Chemistry)		13.07.2022 9:30 am to 11:30 am	14.07.2022 2:30 pm to 3:00 pm
10	Guest AP (Physics)		13.07.2022 9:30 am to 11:30 am	14.07.2022 3:00 pm to 3:30 pm

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

पहाड गॉव पोर्ट ब्लेयर
अंडमान तथा निकोबार द्वीप समूह

PAHARGAON, PORT BLAIR- 744103
ANDAMAN & NICOBAR ISLANDS

ISO 9001
BUREAU VERITAS
Certification



11	Part time Instructors (CO/IT/ECE/ME/ CE/EE)	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	15.07.2022 9:30 am to 11:30 am	-----
12	Part time Instructors (Physics/ Chemistry)	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	15.07.2022 9:30 am to 11:30 am	-----

Dean (Academics)

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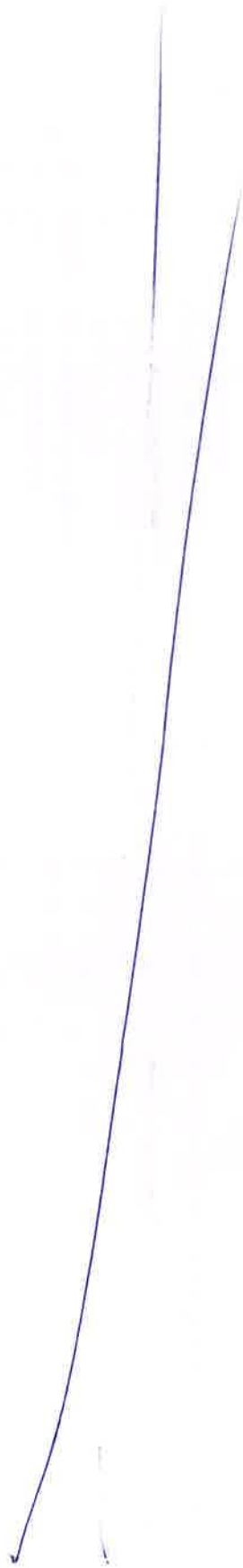


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तक शिक्षण संकेत
अज्ञान तथा विकास पराजित
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DEMO TOPICS FOR GUEST AP, GUEST LECTURER AND PART TIME INSTRUCTOR DBRAIT 2022-2023
(ODD SEMESTER)

DEPARTMENT	THEORY	PRACTICAL
GI. (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	
GI. (Accounts)	<ol style="list-style-type: none">1. Principles of accounting2. Types of capitals3. Direct and indirect taxes4. Ledger5. Preparation of financial statement6. Depreciation & causes of depreciation7. Bank reconciliation statement8. Visitors tabular charges9. Methods of charging room rates10. Guest weekly bill11. Subsidiary books	
GI (EE)	<ol style="list-style-type: none">1. Mesh & nodal analysis2. RLC series circuit & circuit resonance3. Measurement of single phase power using dynamometer wattmeter4. Construction & working principle of transformer5. Voltage regulation of alternator6. Parallel operation of transformer	<ol style="list-style-type: none">1. Verification of Krichoff's laws2. Measurement of power in single phase AC circuit3. Measurement of three phase power by two wattmeter method4. Load test on single phase transformer5. Open circuit & short circuit test of single phase transformer





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	<ol style="list-style-type: none"> 7. Construction & working of Buchholz relay 8. Different types of line insulators in transmission & distribution system 9. Different types of three phase induction motors 10. Over current and earth fault protection of alternators 	<ol style="list-style-type: none"> 6. Load test on three phase induction motor 7. Staircase wiring 8. Go down wiring 9. Straight joint & T-joint 10. Starting & running of single phase induction motor in forward & reverse direction
GL (ECE)	<ol style="list-style-type: none"> 1. Boolean algebra laws, duality theorem, Demorgans theorem 2. Encoder/decoder, comparison (IC7447), BCD to 7 segment decoder/driver 3. SR flip flop, clocked SR flip flop with preset & clear, drawback of SR flip flop 4. Introduction & block diagram of embedded system 5. Harvard & Van-neuman architecture, RISC & CISC processor 6. Classification of embedded systems- small scale, medium scale, sophisticate, stand-alone reactive/real time 7. Introduction to data communication – process & its components, transmitter, receiver, medium, message 8. Real time OS – general & real time OS, features of RTOS, watchdog timer, semaphore 9. Multiplexing & switching- FDM, wavelength division multiplexing, Synchronous time division multiplexing 10. Spread spectrum – FHSS, DSSS 11. PN junction diode – symbol, construction, working, characteristics & application 12. Rectifier & its types – performance, construction, working, parameters, efficiency, ripple factor 	<ol style="list-style-type: none"> 1. Design full and half adder 2. Build/test function od SR flip flop using NAND gate 3. Construct SR, JK, D & T flip flop and verify its truth table 4. Identify pins of 8051 & AVR microcontroller 5. Execute 'C' program to perform following arithmetic operations on 8-bit data – addition , subtraction, multiplication & division 6. Develop & test a 'C' program to perform data transfer from source to destination (use internal memory locations) 7. Develop & test a 'C' program to turn ON LEDs with Key(s) press 8. Interface 89C51/AVR microcontroller & write C program to display string on given 16*2 LCD 9. Test the performance of PN junction diode 10. Test the performance of Zener diode 11. Identify the three terminals of transistors using digital multimeter
GL (Civil)	<ol style="list-style-type: none"> 1. Highway engineering <ul style="list-style-type: none"> ➤ Geometric design components of highways ➤ Types of pavements 2. Advanced surveying 	<ol style="list-style-type: none"> 1. Surveying Lab – measurement of angle 2. CMT C lab – test for concrete 3. Soil mechanics lab – index properties of soil

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	<ul style="list-style-type: none"> ➤ Theodolite traversing for given conditions ➤ Methods of plane tabling for given situations 3. Public health engineering <ul style="list-style-type: none"> ➤ Water treatment processes ➤ Waste water treatment processes 4. Building construction <ul style="list-style-type: none"> ➤ Types of foundation ➤ Building communication & ventilation 5. Mechanics of structure <ul style="list-style-type: none"> ➤ Compute the shear force & bending moments to arrive at the Shear force diagram, bending moment diagram for the given beam & load conditions. Locate the point of contra shear & point of contra flexure for the given SFD & BMD ➤ Concept of compression member, short column, long column, effective length, radius of gyration, slenderness ratio, type of end conditions for columns, buckling of axially loaded columns 	
GL (CO/IT)	<ol style="list-style-type: none"> 1. Principle of database – normalization, ER model 2. Advanced java programming – socket programming, AWT 3. Client side scripting – function, cookies 4. Data structure – stack, queue 5. Computer graphics – windowing, clipping 6. Operating system – memory management 7. Software testing – test management, defect management 8. Object oriented programming using C++ - inheritance & its types 9. Advance computer network – IP addressing, transition from IPv4 to IPv6 10. 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 field 2. Client side scripting – <ul style="list-style-type: none"> ➤ Develop java script o implement function ➤ Develop a webpage for creating session & persistent cookies 3. Applied multimedia techniques – <ul style="list-style-type: none"> ➤ Design wallpaper showing water drop effects of an image ➤ Design poster using different text effect



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GAP (ME)	<ol style="list-style-type: none">1. Angle of projection (1st & 3rd)2. Development of surfaces3. Losses in pipeline flow4. Mechanical drives systems5. Theories of failures6. Second law of thermodynamics7. Working principle of differential unit8. Working of electro discharge machining (EDM)9. Basic mechatronics systems10. Hydraulics & pneumatic systems	<ul style="list-style-type: none">➤ 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 & 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 required1. Conic sections2. Isometric projections3. Orthographic projection in Auto CAD4. Verification of Bernoulli's theorem5. Determination of friction factor6. Linear measurement by Vernier Calliper7. Angular measurements by sine bar & slip gauges8. Measure screw thread's parameters using Profile projector
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GL (HM)	<ol style="list-style-type: none">1. Methods of cooking2. Stocks & salads3. Wines classification4. Distillation5. Function catering6. Importance of selling & techniques7. Interior designing8. Housekeeping organization chart9. Facility planning & management10. Reservation modes & sources	<p>9. Determine the MA, VR, efficiency, ideal effort & effort lost in friction. State & justify whether machine is reversible or not for a given single purchase crab winch</p> <p>10. Determine the MA, VR, efficiency, ideal effort & effort lost in friction. State & justify whether machine is reversible or not for a given Differential wheel & axle</p> <ol style="list-style-type: none">1. Guest handling2. Bed layout & check out3. Room preparation4. Lay a table for a 5 course continental menu5. Plan and prepare a four course Indian menu
GL (Hygiene & Nutrition)	<ol style="list-style-type: none">1. Malnutrition2. Carbohydrates3. Allergies4. Personal hygiene5. Food production6. Food storage7. Pest control8. Garbage disposal9. Protein	<ol style="list-style-type: none">1. Food adulteration2. Calculation of nutrition in given food items
GAP (Maths)	<ol style="list-style-type: none">1. Differentiation of implicit function2. Multiple integral & its application areas by double integration3. Reduction of quadratic form into canonical form by orthogonal transformation4. Eigen value & Eigen vector of a real matrix	



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GAP (English)	<ol style="list-style-type: none">1. Linear differential equations of higher order2. Solve simultaneous equations in three variables using Cramer's rule3. Definition of fraction, proper, improper fraction & partial fraction4. Application of Laplace equation in differential equation & integral equation5. Fourier transforms & its transverse6. Gauss divergence theorem & Stokes theorem	
GAP (Chemistry)	<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	<ol style="list-style-type: none">1. Determine the pH value of given solution using pH meter & universal indicator2. Determine thinner content in oil paint3. Determine total hardness, temporary hardness and permanent hardness of water sample by EDTA method4. Standardization of KMnO4 solution using standard oxalic acid IV & determine the %age of iron present in given Hematite ore by KMnO4 solution5. Determination of carbonates & bicarbonates in water6. Determination of chloride content in a given sample of water

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GAP (Physics)	<ol style="list-style-type: none">1. Laser & fibre optics2. Hall effect in semiconductors3. Diffraction grating & its application4. Thermal properties of matter5. Nanomaterials – its synthesis, properties & application6. Non-destructive testing of materials7. Super conductors & its application8. Double refraction & Huygen's theory of double refraction9. Quantum theory of para magnetism & ferro magnetism10. Polarisation & its properties	<ol style="list-style-type: none">7. Estimation of vinegar8. Estimation of available chlorine in bleaching powder9. Estimation of ferrous by permagnometry10. Estimation of magnesium by EDTA <ol style="list-style-type: none">1. To study of co-efficient of thermal conductivity of a bad conductor by using Lee's disc method2. Determination of diameter of a thin wire- air wedge method3. To determine (a) the wavelength of sodium vapour light/ or (b) the radius of curvature of the surface of a Plano-convex lens, by forming Newton's rings4. Determine the specific resistance of given wire5. Use Searle's method to determine the Young's modulus of given wire6. Determination of radius of curvature of a planoconvex lens by using Newton's ring method7. To determine the refractive index of a glass prism by using pin method8. Vibration magnetometer - calculation of magnetic moment & pole strength9. To determine the co-efficient of viscosity of the given liquid by using stokes method10. To determine the buoyancy force on solid immersed in liquid (Archemiedies principle)
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DEPARTMENT

CO/IT

**Demo Topics for Part Time Instructors
PRACTICAL TOPICS**

1. Network cabling
2. Setup WiFi
3. Assemble & disassemble of various part of computer system
4. OS installation
5. C program on pointer, structures & file management
6. C++ program on class, overloading, inheritance
7. Data structure using C – tree traversal
8. Data structure using C – bubble sorting, radix sorting
9. Mail merge
10. Preparation of result sheet in excel

ECE

1. Design full and half adder
2. Build/test function of SR flip flop using NAND gate
3. Construct SR, JK, D & T flip flop and verify its truth table
4. Identify pins of 8051 & AVR microcontroller
5. Execute 'C' program to perform following arithmetic operations on 8-bit data – addition, subtraction, multiplication & division
6. Develop & test a 'C' program to perform data transfer from source to destination (use internal memory locations)
7. Develop & test a 'C' program to turn ON LEDs with Key(s) press
8. Interface 89C51 /AVR microcontroller & write C program to display string on given 16*2 LCD
9. Test the performance of PN junction diode
10. Test the performance of Zener diode
11. Identify the three terminals of transistors using digital multimeter

ME

1. Conic sections
2. Isometric projections
3. Orthographic projection in Auto CAD

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	<ol style="list-style-type: none">4. Verification of Bernoulli's theorem5. Determination of friction factor6. Linear measurement by Vernier Calliper7. Angular measurements by sine bar & slip gauges8. Measure screw thread's parameters using Profile projector9. Determine the MA, VR, efficiency, ideal effort & effort lost in friction. State & justify whether machine is reversible or not for a given single purchase crab winch10. Determine the MA, VR, efficiency, ideal effort & effort lost in friction. State & justify whether machine is reversible or not for a given Differential wheel & axle
EE	<ol style="list-style-type: none">1. Verification of Krichoff's laws2. Measurement of power in single phase AC circuit3. Measurement of three phase power by two wattmeter method4. Load test on single phase transformer5. Open circuit & short circuit test of single phase transformer6. Load test on three phase induction motor7. Staircase wiring8. Go down wiring9. Straight joint & T-joint10. Starting & running of single phase induction motor in forward & reverse direction
Civil	<ol style="list-style-type: none">1. Surveying Lab - measurement of angle2. CMTc lab - test for concrete3. Soil mechanics lab - index properties of soil
Physics	<ol style="list-style-type: none">1. To study of co-efficient of thermal conductivity of a bad conductor by using Lee's disc method2. Determination of diameter of a thin wire- air wedge method3. To determine (a) the wavelength of sodium vapour light/ or (b) the radius of curvature of the surface of a Plano-convex lens, by forming Newton's rings4. Determine the specific resistance of given wire5. Use Searle's method to determine the Young's modulus of given wire



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	<ol style="list-style-type: none">6. Determination of radius of curvature of a planoconvex lens by using Newton's ring method7. To determine the refractive index of a glass prism by using pin method8. Vibration magnetometer - calculation of magnetic moment & pole strength9. To determine the co-efficient of viscosity of the given liquid by using stokes method10. To determine the buoyancy force on solid immersed in liquid (Archimedes principle)
Chemistry	<ol style="list-style-type: none">1. Determine the pH value of given solution using pH meter & universal indicator2. Determine thinner content in oil paint3. Determine total hardness, temporary hardness and permanent hardness of water sample by EDTA method4. Standardization of $KMnO_4$ solution using standard oxalic acid IV & determine the %age of iron present in given Hematite ore by $KMnO_4$ solution5. Determination of carbonates & bicarbonates in water6. Determination of chloride content in a given sample of water7. Estimation of vinegar8. Estimation of available chlorine in bleaching powder9. Estimation of ferrous by permagnometry10. Estimation of magnesium by EDTA


Dean (Academic)

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