

अंडमान तथा निकोबार प्रशासन ANDAMAN & NICOBAR ADMINISTRATION

डॉ. भीमराव अंबेडकर प्रौद्योगिकी संस्थान Dr. B.R. AMBEDKAR INSTITUTE OF TECHNOLOGY

पहाळ गाँव पोर्ट ब्लेयर

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). 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.	Details of	Course	Educational Qualification	Date ar	nd time
No.	requirement			Practical	Theory
1 ,	Guest AP (Civil Engineering) Guest AP (Electronics and communication Engineering)	Degree	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.	22/03/2022 09:30 to 11:30 AM 22/03/2022 09:30 to 11:30 AM	22/03/2022 01:30 to 01:45 PM 22/03/2022 01:45 to 02:00 PM
3 4 5	Guest Lecturer (Electronics and communication Engineering) Guest Lecturer (Civil Engineering) Guest Lecturer (Computer Science / Information Technology)	Diploma	First class B.E./B.Tech., from recognized university in relevant course	22/03/2022 09:30 to 11:30 AM 22/03/2022 09:30 to 11:30 AM 22/03/2022 09:30 to 11:30 AM	22/03/2022 02:00 to 02:15 PM 23/03/2022 01:30 to 01:45 PM 23/03/2022 01:45 to 02:00 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	D escrip	23/03/2022 02:00 to 02:15 PM
7	Part time Instructors (CO/IT/ECE/)	Degree &	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	22/03/2022 09:30 AM to 11:30 AM	
8	Part time Instructors (Physics)	Diploma	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	22/03/2022 09:30 AM to 11:30 AM	a e

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DEMO TOPICS FOR GUEST AP, GUEST LECTURER AND PART TIME INSTRUCTOR DBRAIT 2021-2022 (EVEN SEMESTER)

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	PRACTICAL (DIPLOMA)	THEORY (DIPLOMA)	PRACTICAL	THEORY (DEGREE)	DEPARTME



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-	<u>Diploma Programme:</u> 1. Set up Wifi	1. PHP	 Emerging Trends in Computer and 		Computer Engineering
			asset.		
			Economics life of		
			on		
1			alternatives.		
			9. Evaluation of Public		
			Economics.		
(Engineering		
			8. Scope of		
			Management.		
			7. Scientific		
			depreciation.		
			method of		
			ii.		
			Management.		
			4. Budgets & its types.		
			and management.		
			3. Capital generation		
			Management.		
			2. Function of		
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			1. Prepration of		Management
	principle)	*1			
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	6	Cursor and Triggers		
	Programming in 'C'			
	Triggers in Plsql.	in DBMS, joins,		
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10 Tree data structur	Management	Transactions and		
	6. Database	Management		
	Website.	5. Database	Į.	
allocation	Designing of	Reference Model.		
٠,		and detection,		
	5. Webpage Designing	r Correction		
	compute	ork		
4 Stack data structure	Dissemble of	and Computer		
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 C programming lab 	ntenance	4 Data		
Degree Programme:		-		
	4. Computer Peripheral	requirement		
ın excel.	network.	Software		
10. Preparation of result silect	Printer in a	Engineering,		
9. Network capiting	Files, Folders,	Requirement		
	ng,	Engineering		
		3. Software		
bubble sorms,	and Computer	Java, Java Applets.		
	1 Comm	F		
tree traversal (Java,	*	
6. Data structure using C-	for Java, Java	Exception handling		
	Exception handling	2. Java Programming		
5. C++ program on class,	2. Java Programming	Learning.	1-	
	data from database.	Learning and Deep		
structures	Database and retrieve	Concept of Machine		
m	to enter data in to	Applications of AI,		
OS INSTALIACIO	 Develop Applications 	of		
	data validation.	Scope, Component,		
various part of Computer	from controls and add	Concept of AI,		
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Civil	
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Bending stresses Moment Distribution method Environmental engg. Transportation of sewage Activated sludge process Flocculators Contour surveying Tachometric surveying One dimensional consolidation	
1. Determination of quality of water quality of water 2. Test on cement 3. Test on aggregate 4. Tachometric survey 5. Compass surveying 6. Levelling 7. Test of steel	
	Picker Picker 9. Programming with Python Object oriented programming with python method overloading and overriding, inheritance composition. 10.Network and Information security Symmetric and Assymetric and Cryptography, Cyber Crime.
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		Set	program to transier a		
			Sen Sum		
	counter	8051 instruction	sing m		
	10.4 bit asynchronous	of 8051	8. Develop an	8085.	
7	flop	14. Addressing modes	comparator.	Microprocessor	
	Master slave JK flip-	contact sensor	magnitude	M: more or	
	8. 8051 architecture	13. Contact and non-	implement a 4-bit		
	LVDT	transducer	7. To design and	8. Explain the Flag	
Op-amp.	displacement using	12. Active & passive	convertor.	IPv4 to IPv6.	
inverting amplifier circuit using	7. Measure	characteristics	binary to gray code	transition from	
10. To design and set up an	measure weights	diode	implement a 4-bit	7. Explain about the	
crossing detector circuit.	Use of strain guage to	11. PN junction & zener	6. To design and		
9. To design and set up a zero	Simulink	supply	modulation.	outourierer out inc	
location for 8085 microprocessor.	MAT LAB and	10. DC regulated power	amplitude		
from one memory to another	u	addition	program to perform	6. Explain	
program to transfer a block of data	5. Simulate the delta	9. Perform 8-bit	5. Develop a MATLAB	Logic Array (PLA).	
8. Develop an assembly language	phone and trainer kit	7476	microprocessor.	Programmable	
magnitude comparator.	using 3G mobile	ripple counter using	number for 8085	5. Describe	
7. To design and implement a 4-bit	of 3G networking	8. Implement 4 bit	into hexadecimal	oscillations.	
binary to gray code convertor.	understand working	measurement	convert BCD number	sustained	
6. To design and implement a 4-bit	 Use AT commands to 	potentiometer level	4. Develop an ALP to	CITICALI IOI	
perform amplitude modulation.	transductance.	linear & rotary	circuit using Op-amp.		
5. Develop a MATLAB program to	calculate	7. Float type with	up an integrator		
for 8085 microprocessor.	characteristics and	6. LVDT & RVDT	3. To design and set	4. Explain the	
number into hexadecimal number	transfer	GPRS architecture	microcontroller.	circuit.	
4. Develop an ALP to convert BCD	characteristics	architecture		response of RC	
integrator circuit using Op-amp.	of FET drain	4. Wireless local loop	interfacing a stepper	3. Explain Transient	
3. To design and set up an	3. Test the performance	characteristics	language program for	Op-Amp.	
motor with 8051 microcontroller.	clipper circuit	3. CE transistor	2. To develop a C-	regulator using	
program for interfacing a stepper	combinational	circuit		2. Design a voltage	
2. To develop a C- language	2. Build/test	2. Clipper & clamper	ltivibrator		
multivibrator using Op-amp.	rectifier.	with filter			
1. To design and set up an astable	 Build/ test full wave 	1. Full wave rectifier	1. To design and set	1. Explain DC load	ECE
				cement	
				10. Hydration of	
				concrete	
				9. Workability of	



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	L L	9.
	Astable multivibrator using 555 timer. 10. Explain the RSA algorithm.	- 1
	Astable multivibra using 555 Explain tl algorithm.	Design an
- 4	Astable multivibrator using 555 timer. Explain the RSA algorithm.	ZID
	ner. RSA	
	mei locc mid 9. 'o dett 10. up ami Op	blo
	memory to another location for 8085 microprocessor. 9. To design and set up a zero crossing detector circuit. 10. To design and set up an inverting amplifier circuit using Op-amp.	block of data from one
	for for occasion a seign a seign a circuit carcuit a circuit a cir	data
	another or 8085 sor. 1 and set crossing uit. n and set inverting cuit using	from
	ad set or	one
61		
	12. 15. 14. 13.	11.
	the given voltage regulator the given voltage 12. Characteristics zener diode 13. Perform 8-subtraction usi microcontroller 14. Interface LCD w 8051 to displace t characteristics a demical number. 15. Simulate 4:1 mux 16. 3-bit adder demultiplexer usi EDA tool	1. Build,
b.	voltage regulator the given voltage Characteristics zener diode Perform subtraction u microcontroller Interface LCD 8051 to displace characteristics demical number. Simulate 4:1 mu 3-bit adder demultiplexer u EDA tool	/p
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will child in the control of the con		
whether machine is reversible		
lost in friction. State & justify		
efficiency, ideal effort & effort		
10. Determine the M.A, V.R,		
purchase crab winch		
or not for a given single		
whether machine is reversible		
lost in friction. State & justify		
efficiency, ideal effort & effort	00	
9. Determine the M.A, V.R,		
projector		
parameters using profile		
8. Measure screw thread's		
bar &slip gauge		
7. Angular measurements by sine		
caliper		
6. Linear measurement by vernier		
5. Determination of friction factor		
theorem		
4. Verification of Bernoulli's		

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DR B. R. AMBEKAR INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

Diploma Demo (Theory)

- 1. Direct and bending stress in vertical members.(Theory of Structure)
- 2. Slope and deflection in beams.(Theory of Structure)
- 3. Varignons theorem. (Applied Mechanics)
- 4. Centre of gravity. (Applied Mechanics)
- 5. Optimum moisture content. (G-Tech)
- 6. Bearing Capacity of Soil. (G-Tech)
- 7. Test on damaged structures. (Maintenance & Repair of Structure)
- 8. Repair Techniques. (Maintenance & Repair of Structure)
- 9. Classification of solid waste. (Solid waste Management)
- 10. Methods of composting. (Solid waste Management)

Diploma Demo (Practical)

1. CMTC Lab:

a) Test for cement and aggregate

b) Test for steel

2. Env. Engg Lab:

a) Test for Water quality.

3. Survey Lab:

a) Compass survey

b) Levelling/ Theodolite survey.

4. G-Tech Lab:

a) Index Properties of soil.

These broad topics of practicals has.
more than locaperiment

Academic Coordinator (Diploma Civil)